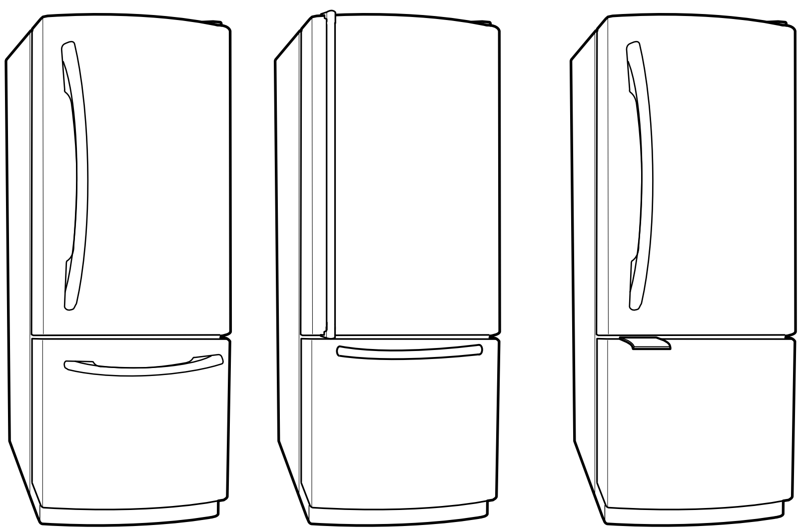
REFRIGERATOR
SERVICE MANUAL

CAUTION
BEFORE SERVICING THE UNIT,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.

MODEL:
- LRDC22734**
- LRDN22712**
- LRDN20724**
- LRDC22744**



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SAFETY PRECAUTIONS

Please read the following instructions before servicing your refrigerator.

1. Check the refrigerator for electrical faults.
2. To prevent electric shock, unplug before servicing.
3. Always check line voltage and amperage.
4. Use standard electrical components.
5. Don't touch metal products in the freezer with wet hands. This may cause frostbite or cause your skin to freeze and stick to the surfaces inside the freezer.
6. Prevent water from flowing onto electric elements in the mechanical parts.
7. Close the top door before opening the bottom door. Otherwise, you might hit your head when you stand up.
8. When tilting the refrigerator, remove any materials on the refrigerator, especially the glass shelves and stored foods.
9. When servicing the evaporator, wear cotton gloves. This is to prevent injuries from the sharp evaporator fins.
10. Disassembly, repair, and servicing the sealed refrigeration system should be performed only by qualified and certified personnel. Refrigerant should not be vented into the atmosphere; proper recovery equipment should be used.

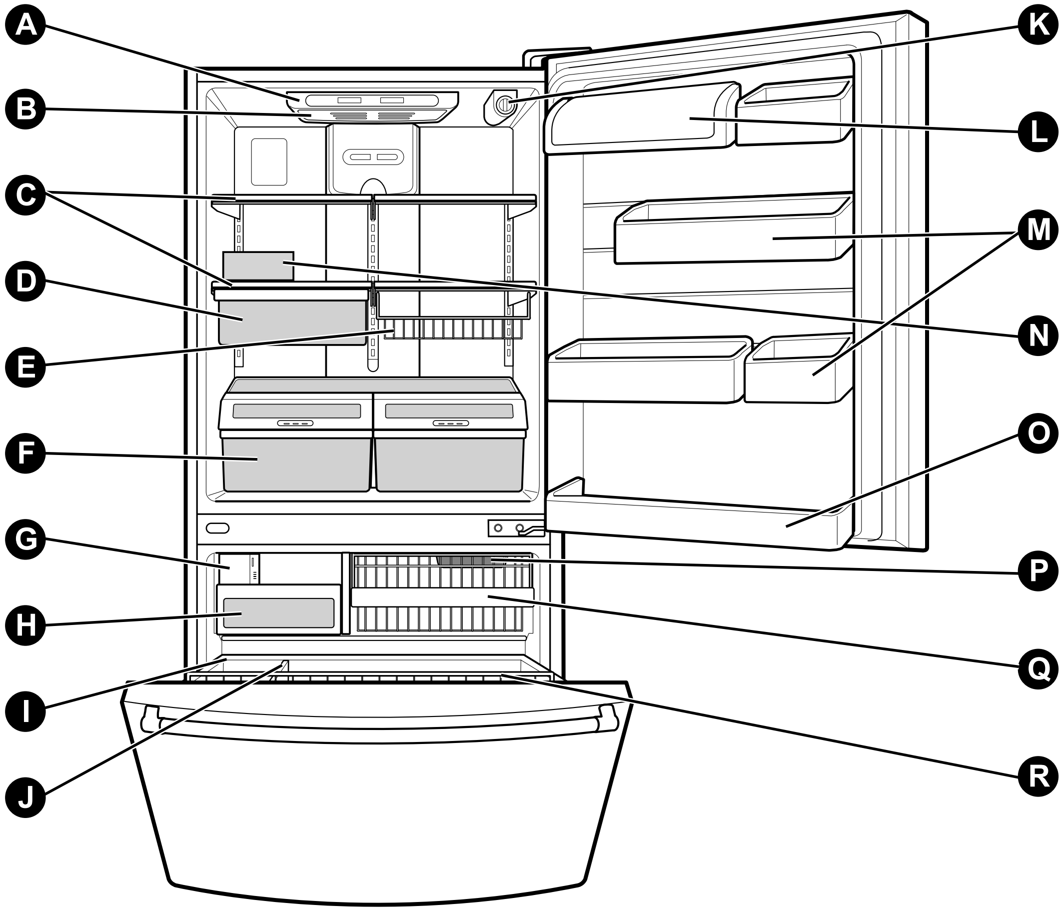
1. SPECIFICATIONS

20 cu. ft. / 22 cu. ft.

ITEMS	SPECIFICATIONS
DOOR DESIGN	Side Rounded
DIMENSIONS (inches)	29 7/8 X 31 3/4 X 67 7/8 (WxDxH) 20cu.ft
	32 7/8 X 31 3/4 X 69 1/2 (WxDxH) 22cu.ft Dispenser
	32 7/8 X 31 3/4 X 68 1/2 (WxDxH) 22cu.ft
NET WEIGHT (pounds)	238.4 (20cu.ft)
	246.9 (22cu.ft)
COOLING SYSTEM	Fan Cooling
TEMPERATURE CONTROL	Micom Control
DEFROSTING SYSTEM	Full Automatic Heater Defrost
DOOR FINISH	Embossed Metal, VCM, Stainless
HANDLE TYPE	Bar, Al
INNER CASE	ABS Resin
INSULATION	Polyurethane Foam

ITEMS		SPECIFICATIONS
VEGETABLE TRAY		Opaque Drawer Type
COMPRESSOR		PTC Starting Type
EVAPORATOR		Fin Tube Type
CONDENSER		Wire Condenser
REFRIGERANT		R-134a (115 g)
LUBRICATING OIL		Freol @ 10G (310 cc)
DEFROSTING DEVICE		SHEATH HEATER
LAMP	REFRIGERATOR	60 W (2EA)
	FREEZER	60 W (2EA)

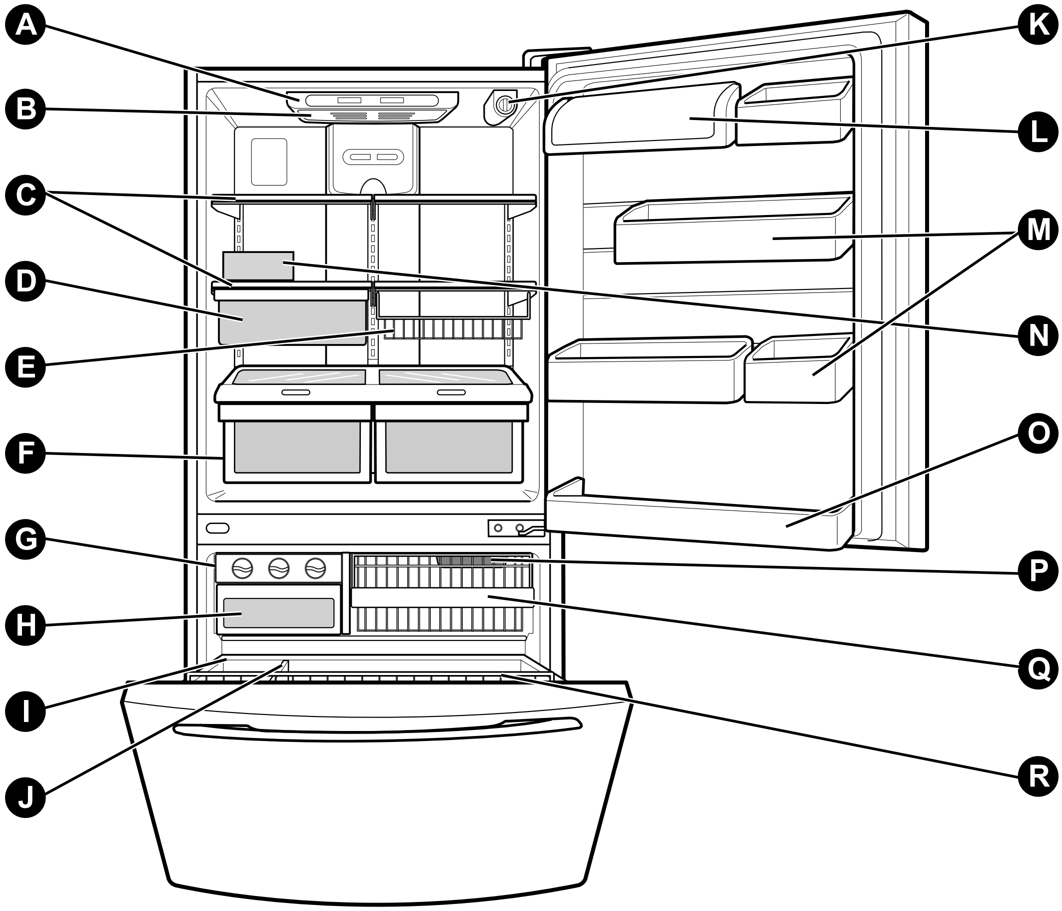
2. PARTS IDENTIFICATION



NOTE: This guide covers several different models.The refrigerator you have purchased may have some or all of the items listed below. The locations of the features shown below may not match your model.

- A Digital Sensor Control
- B Refrigerator Light
- C Shelves
- D Chef Fresh / Snack Pan*
- E Can Dispenser*
- F Optibin Crisper
  Keeps fruits and vegetable fresh and crisper
- G Customcube Icemaker
- H Ice Bin
- I Durabase
- J Divider
- K Filter (inside)*
- L Dairy Bin
- M Design-A-Door
- N Egg Box
- O Refrigerator Door Rack
- P Freezer Light
- Q Wire Basket
- R Freezer Door Rack (Tilting*)

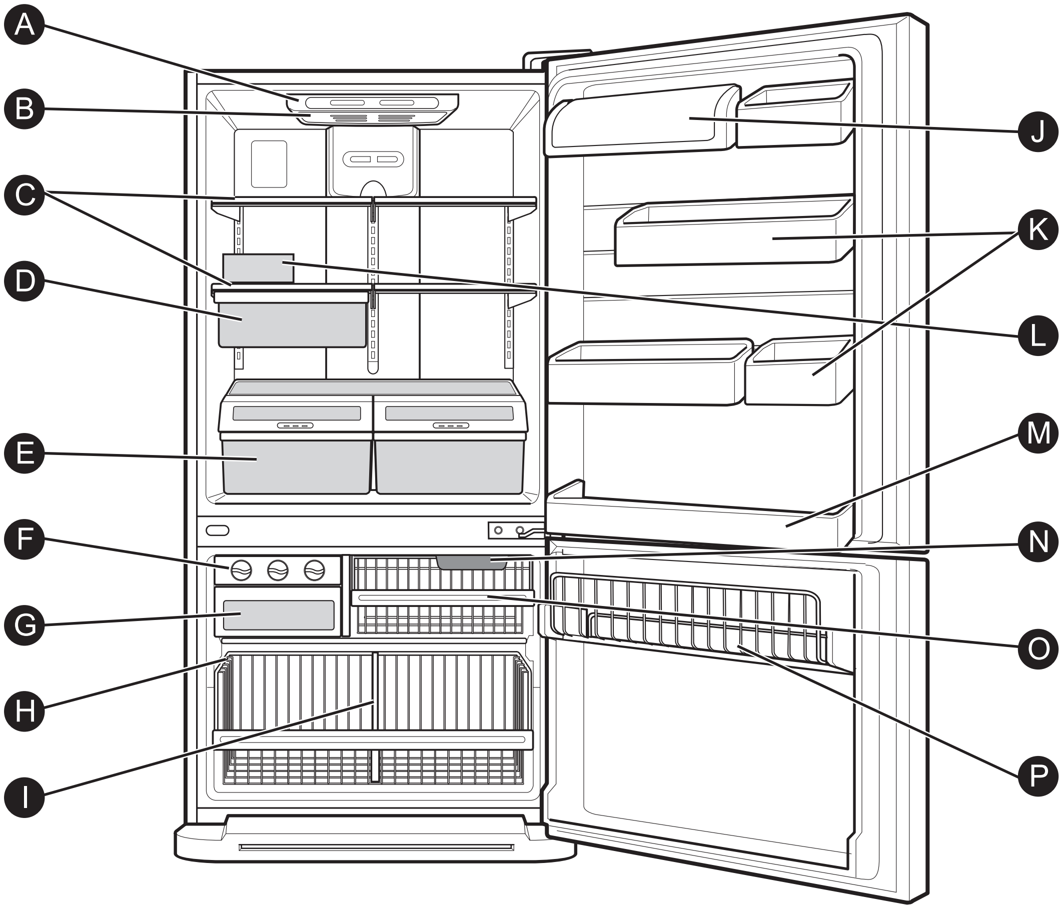
*on some models



NOTE: This guide covers several different models. The refrigerator you have purchased may have some or all of the items listed below. The locations of the features shown below may not match your model.

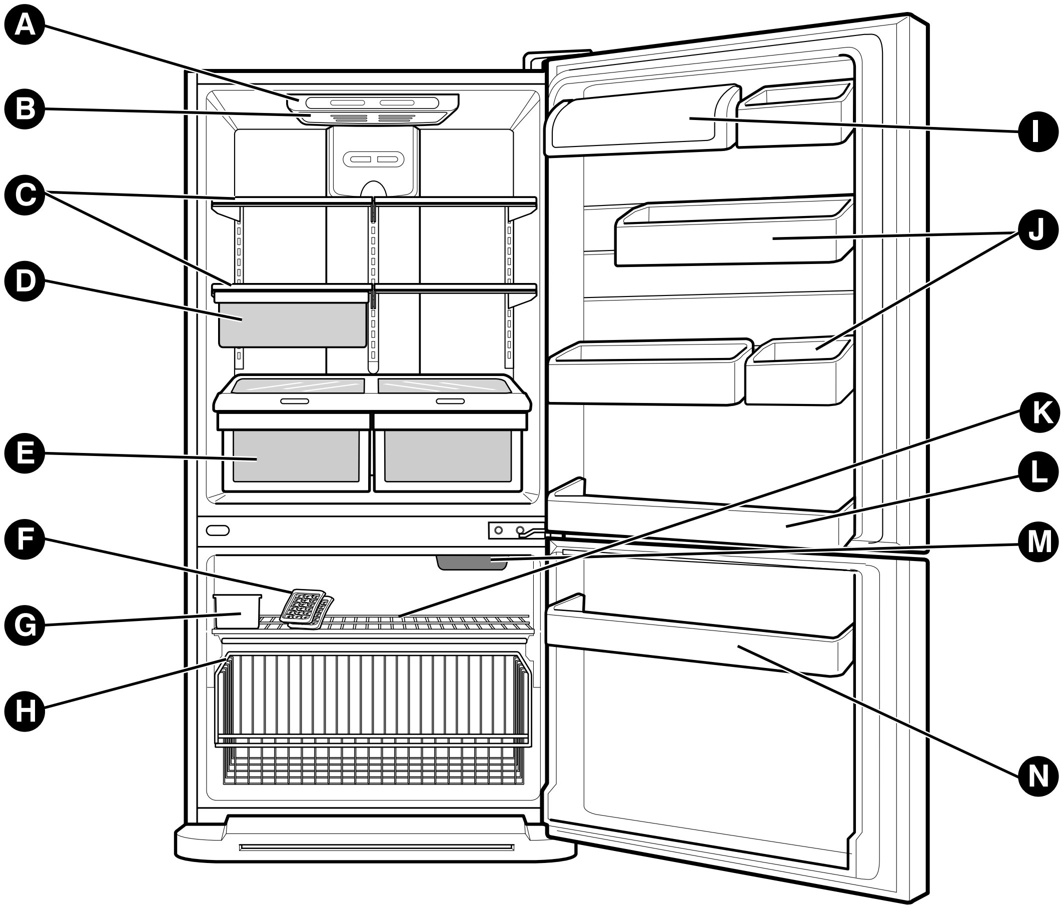
- **A** Digital Sensor Control
- **B** Refrigerator Light
- **C** Shelves
- **D** Chef Fresh / Snack Pan*
- **E** Can Dispenser*
- **F** Optibin Crisper
  Keeps fruits and vegetable fresh and crisper
- **G** Triple Ice Tray
- **H** Ice Bin
- **I** Durabase
- **J** Divider
- **K** Filter (inside)*
- **L** Dairy Bin
- **M** Design-A-Door
- **N** Egg Box
- **O** Refrigerator Door Rack
- **P** Freezer Light
- **Q** Wire Basket
- **R** Freezer Door Rack (Tilting*)

*on some models



NOTE: This guide covers several different models. The refrigerator you have purchased may have some or all of the items listed below. The locations of the features shown below may not match your model.

- A Digital Sensor Control
- B Refrigerator Light
- C Shelves
- D Snack Pan
- E Optibin Crisper
  Keeps fruits and vegetable fresh and crisp
- F Triple Twist Ice Tray
- G Ice Bin
- H Wire Durabase
- I Divider
- J Dairy Bin
- K Design-A-Door
- L Egg Box
- M Refrigerator Door Rack
- N Freezer Light
- O Wire Basket
- P Freezer Wire Door Rack



NOTE: This guide covers several different models.The refrigerator you have purchased may have some or all of the items listed below. The locations of the features shown below may not match your model.

- A Digital Sensor Control
- B Refrigerator Light
- C Shelves
- D Snack Pan
- E Optibin Crisper
  Keeps fruits and vegetable fresh and crisp
- F Ice Trays
- G Ice Bin
- H Wire Durabase
- I Dairy Bin
- J Design-A-Door
- K Wire Freezer Shelf
- L Refrigerator Door Rack
- M Freezer Light
- N Freezer Door Rack

3. DISASSEMBLY

3-1 DOOR

● **Refrigerator Door**

1. Remove the hinge cover by pulling it upwards.
2. Loosen the hexagonal bolts attaching the upper hinge to the body and lift the freezer door.

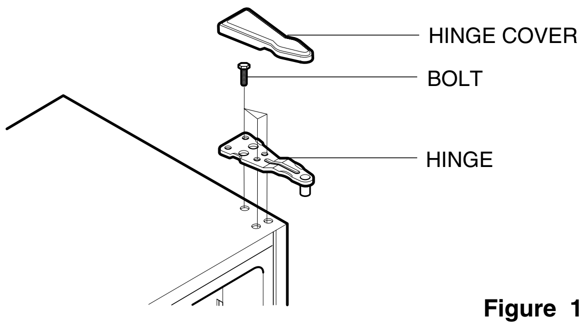


Figure 1

3. Pull out the door gasket to remove from the door foam assembly.

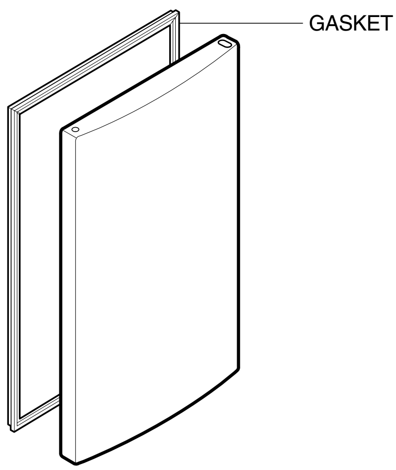


Figure 2

● **Freezer Door**

1. Loosen the hexagonal bolts attaching the lower hinge to the body to remove the refrigerator door only.

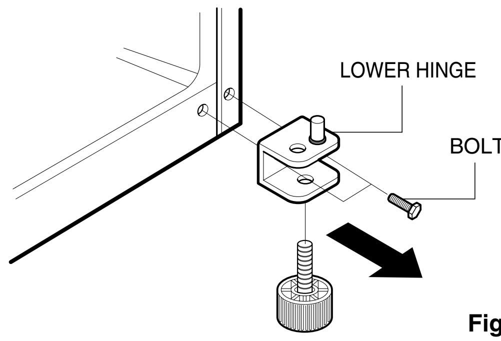


Figure 3

2. Pull out the door gasket to remove from the door foam assembly.

3-2 DOOR SWITCH

1. To remove the door switch, pry it out with a slotted-type driver, as shown in (Figure 4).
2. Disconnect the lead wire from the switch.

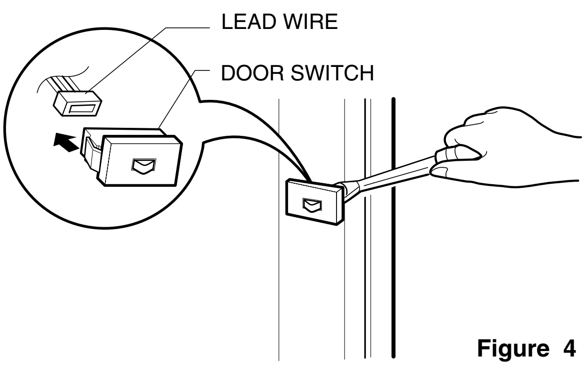


Figure 4

3-3 FAN AND FAN MOTOR

1. Remove the freezer shelf. (If your refrigerator has an icemaker, remove the icemaker first)
2. Remove the grille by pulling it out and by loosening a screw.
3. Remove the Fan Motor assembly by loosening 2 screws and disassemble the shroud.
4. Pull out the fan and separate the Fan Motor and Bracket.

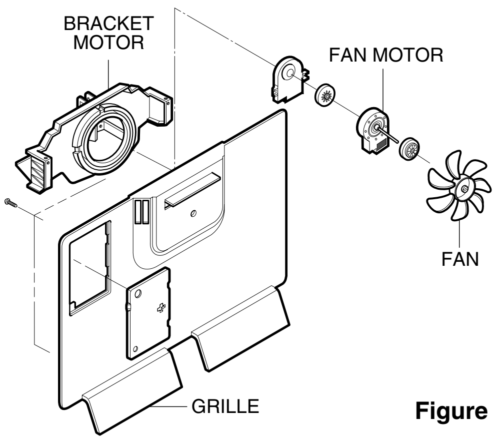


Figure 5

3-4 DEFROST CONTROL ASSEMBLY

Defrost Control assembly consists of Defrost Sensor and FUSE–M.

The Defrost Sensor works to defrost automatically. It is attached to the metal side of the Evaporator and senses its temperature. At 72°C, it turns the Defrost Heater off.

Fuse-M is a safety device for preventing over-heating of the Heater when defrosting.

1. Pull out the grille assembly. (Figure 6)
2. Separate the connector with the Defrost Control assembly and replace the Defrost Control assembly after cutting the Tie Wrap. (Figure 7)

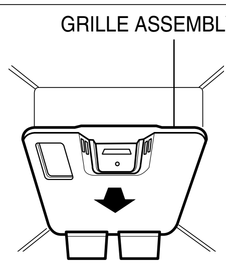


Figure 6

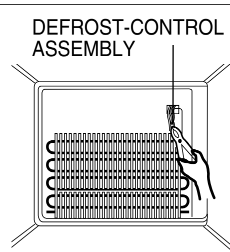


Figure 7

3-5 LAMP

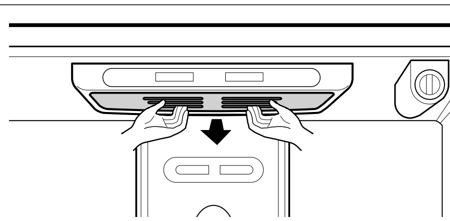


Figure 8

3-5-1 Refrigerator Compartment Lamp

1. Unplug the power cord from the outlet.
2. Remove refrigerator shelves.
3. Release the hooks on both ends of the lamp shield and pull the shield downward to remove it.
4. Turn the lamp counterclockwise.
5. Assemble in reverse order of disassembly. Replacement bulb must be the same specification as the original (Max. 60 W-2EA).

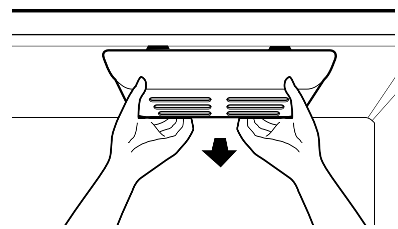


Figure 9

3-5-2 Freezer Compartment Lamp

1. Unplug refrigerator or disconnect power.
2. Reach behind light shield to remove bulb.
3. Replace bulb with a 60-watt appliance bulb.
4. Plug in refrigerator or reconnect power.

3-6 CONTROL BOX-REFRIGERATOR

1. First, remove all shelves in the refrigerator, than remove the Refrigerator control Box by loosening 2 screws.

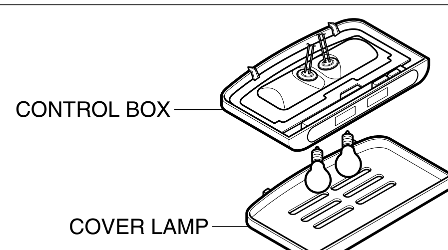


Figure 10

2. Remove the Refrigerator Control Box by pulling it downward.
3. Disconnect the lead wire on the right position and separate the lamp sockets.

3-7 MULTI DUCT

1. Remove an upper and lower Cap by using a flat screwdriver, and loosen 3 screws. (Figure 11)
2. Disconnect the lead wire on the bottom position.

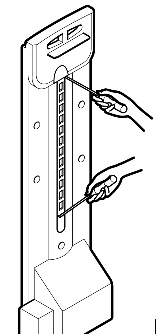


Figure 11

4. ADJUSTMENT

4-1 COMPRESSOR

4-1-1 Role

The compressor intakes low temperature and low pressure gas from the evaporator of the refrigerator and compresses this gas to high-temperature and high-pressure gas. It then delivers the gas to the condenser.

4-1-2 Composition

The compressor includes overload protection. The PTC starter and OLP (overload protector) are attached to the outside of the compressor. Since the compressor is manufactured to tolerances of 1 micron and is hermetically sealed in a dust and moisture-free environment, use extreme caution when repairing it.

4-1-3 Note for Usage

(1) Be careful not to allow over-voltage and over-current.
(2) If compressor is dropped or handled carelessly, poor operation and noise may result.
(3) Use proper electric components appropriate to the Particular Compressor in your product.
(4) Keep Compressor dry.
If the Compressor gets wet (in the rain or a damp environment) and rust forms in the pin of the Hermetic Terminal, poor operation and contact may result.
(5) When replacing the Compressor, be careful that dust, humidity, and soldering flux don't contaminate the inside of the compressor. Dust, humidity, and solder flux contaminate the cylinder and may cause noise, improper operation or even cause it to lock up.

4-2 PTC-STARTER

4-2-1 Composition of PTC-Starter

(1) PTC (Positive Temperature Coefficient) is a no-contact semiconductor starting device which uses ceramic material consisting of $BaTiO_3$.
(2) The higher the temperature is, the higher the resistance value. These features are used as a starting device for the Motor.

4-2-2 Role of PTC-Starter

(1) The PTC is attached to the Sealed Compressor and is used for starting the Motor.
(2) The compressor is a single-phase induction motor. Durign the starting operation, the PTC allows current flow to both the start winding and main winding.

4-2-3 PTC-Applied Circuit Diagram

● **Starting Method for the Motor**

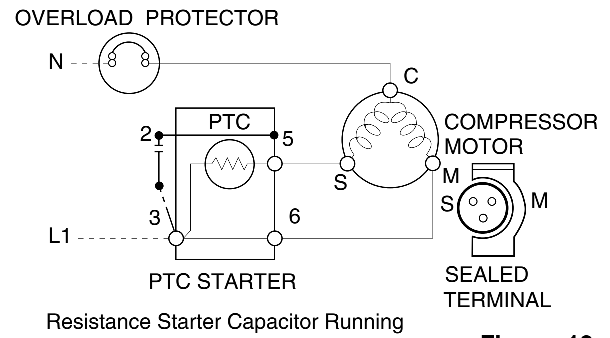


Figure 12

4-2-4 Motor Restarting and PTC Cooling

(1) It requires approximately 5 minutes for the pressure to equalize before the compressor can restart.
(2) The PTC device generates heat during operation. Therefore, it must be allowed to cool before the compressor can restart.

4-2-5 Relation of PTC-Starter and OLP

(1) If the compressor attempts to restart before the PTC device is cooled, the PTC device will allow current to flow only to the main winding.
(2) The OLP will open because of the over current condition. This same process will continue (3 to 5 times) when the compressor attempts to restart until the PTC device has cooled. The correct OLP must be properly attached to prevent damage to the compressor.
Parts may appear physically identical but could have different electrical ratings. Replace parts by part number and model number. Using an incorrect part could result in damage to the product, fire, injury, or possibly death.

4-2-6 Note for Using the PTC-Starter

(1) Be careful not to allow over-voltage and over-current.
(2) Do not drop or handle carelessly.
(3) Keep away from any liquid.
If liquid such as oil or water enters the PTC, PTC materials may fail due to breakdown of their insulating capabilities.
(4) If the exterior of the PTC is damaged, the resistance value may be altered. This can cause damage to the compressor and result in a no-start or hard-to-start condition.
(5) Always use the PTC designed for the compressor and make sure it is properly attached to the compressor. Parts may appear physically identical but could have different electrical ratings. Replace parts by part number and model number. Using an incorrect part could result in damage to the product, fire, injury, or possibly death.

4-3 OLP (OVERLOAD PROTECTOR)

4-3-1 Definition of OLP

(1) OLP (OVERLOAD PROTECTOR) is attached to the Compressor and protects the Motor by opening the circuit to the Motor if the temperature rises and activating the bimetal spring in the OLP.

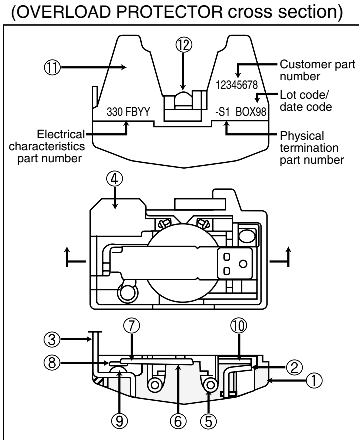
(2) When high current flows to the Compressor motor, the Bimetal works by heating the heater inside the OLP, and the OLP protects the Motor by cutting off the current flowing to the Compressor Motor.

4-3-2 Role of the OLP

(1) The OLP is attached to the Sealed Compressor used for the Refrigerator. It prevents the Motor Coil from being started in the Compressor.

(2) For normal operation of the OLP, do not turn the Adjust Screw of the OLP in any way.

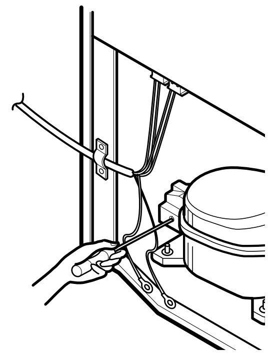
(OVERLOAD PROTECTOR cross section)



Part No.	Name
①	Base, phenolic (UL 94 V-0 rated)
②	Movable arm support, plated steel
③	Stationary contact support, plated steel
④	Heater support, plated steel
⑤	Heater, resistance alloy
⑥	Disc, thermostatic alloy
⑦	Movable arm, spring temper copper alloy
⑧	Contact, movable, silver on copper
⑨	Contact, stationary, silver on copper
⑩	Slug, plated steel
⑪	Cover, polyester (UL 94 V -0 rated)
⑫	Pin connector, plated copper alloy (To engage 2.33/2.66 mm dia. pin)
⑬	Quick-connect terminal, brass, conforms to UL 310, MEMA DC-2, DIN 46344

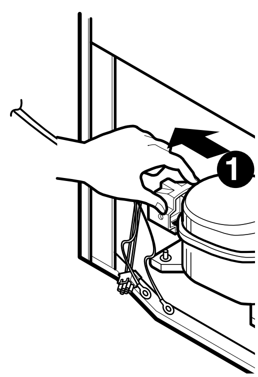
Figure 13

4-4 TO REMOVE THE COVER PTC



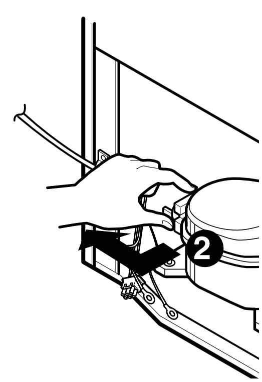
1) Remove the Cover Back M/C.

(2) Remove the screw on Cover PTC.



(3) Remove two Housings on upper part of Cover PTC.

(4) Take out the cover PTC from upper to lower position like ①.



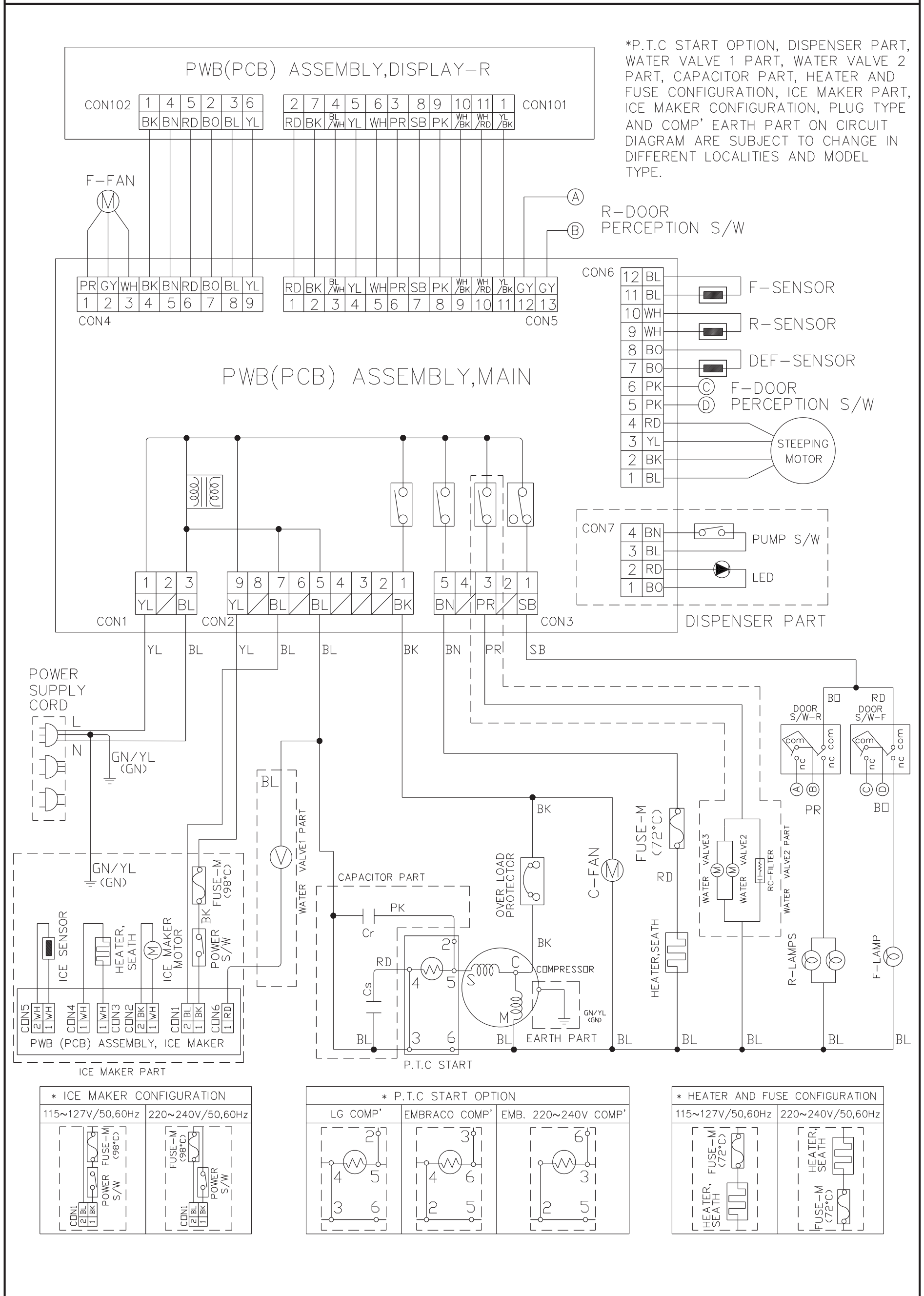
(5) Turn 45° in the direction of ② and take it out.

(6) Assembly in reverse order of disassembly.

5. CIRCUIT DIAGRAM

Best / Best dispenser

DIAGRAMA ELECTRICO - CIRCUIT DIAGRAM



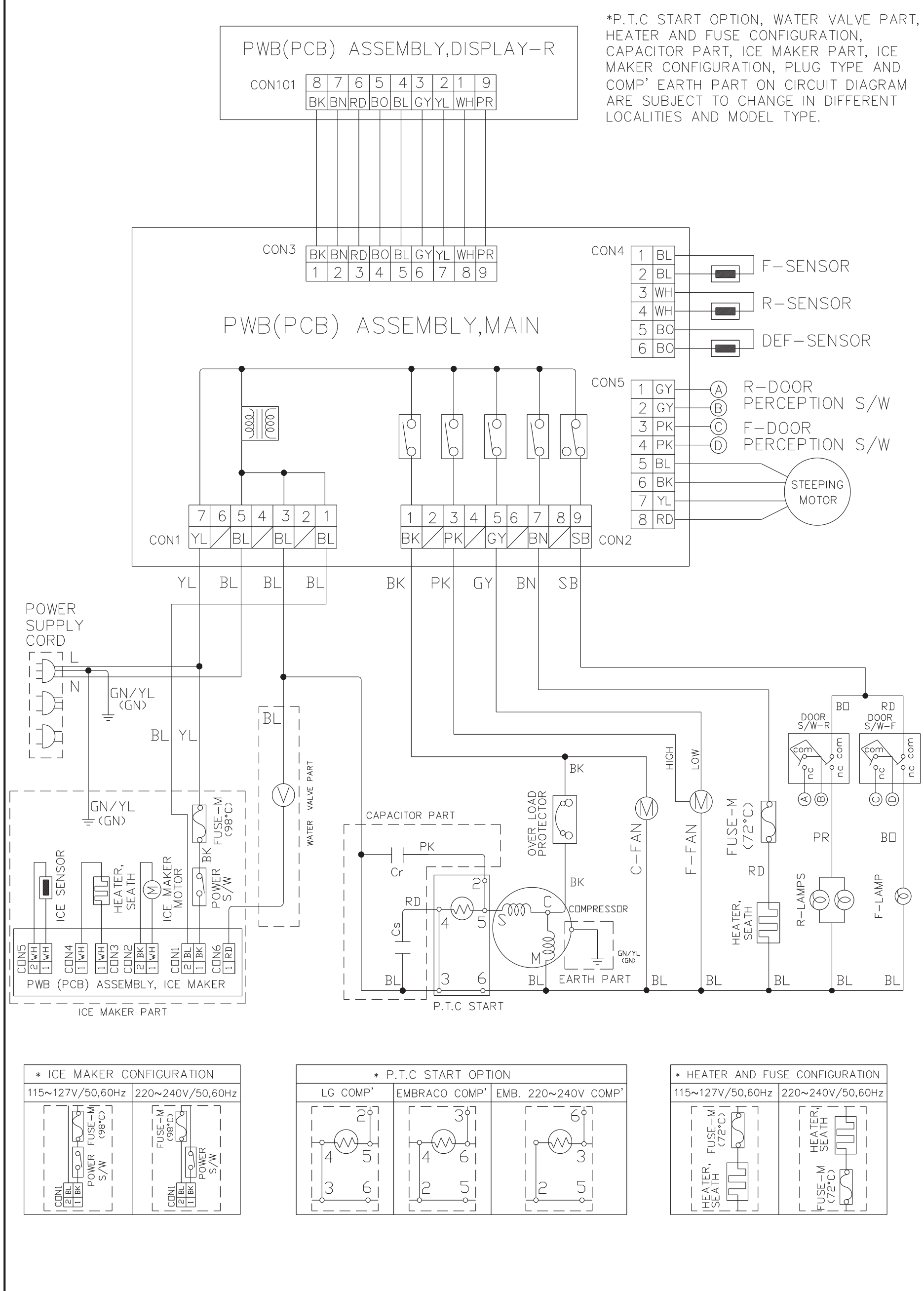
BK: NEGRO/BLACK　BN: CAFE/BROWN　RD: ROJO/RED　BO: NARANJA/BRIGHT ORANGE

YL: AMARILLO/YELLOW　GN: VERDE/GREEN　BL: AZUL/BLUE　PR: VIOLETA/PURPLE　GY: GRIS/GRAY

WH: BLANCO/WHITE　SB: AZUL CIELO/SKY BLUE　PK: ROSA/PINK

Good / Better

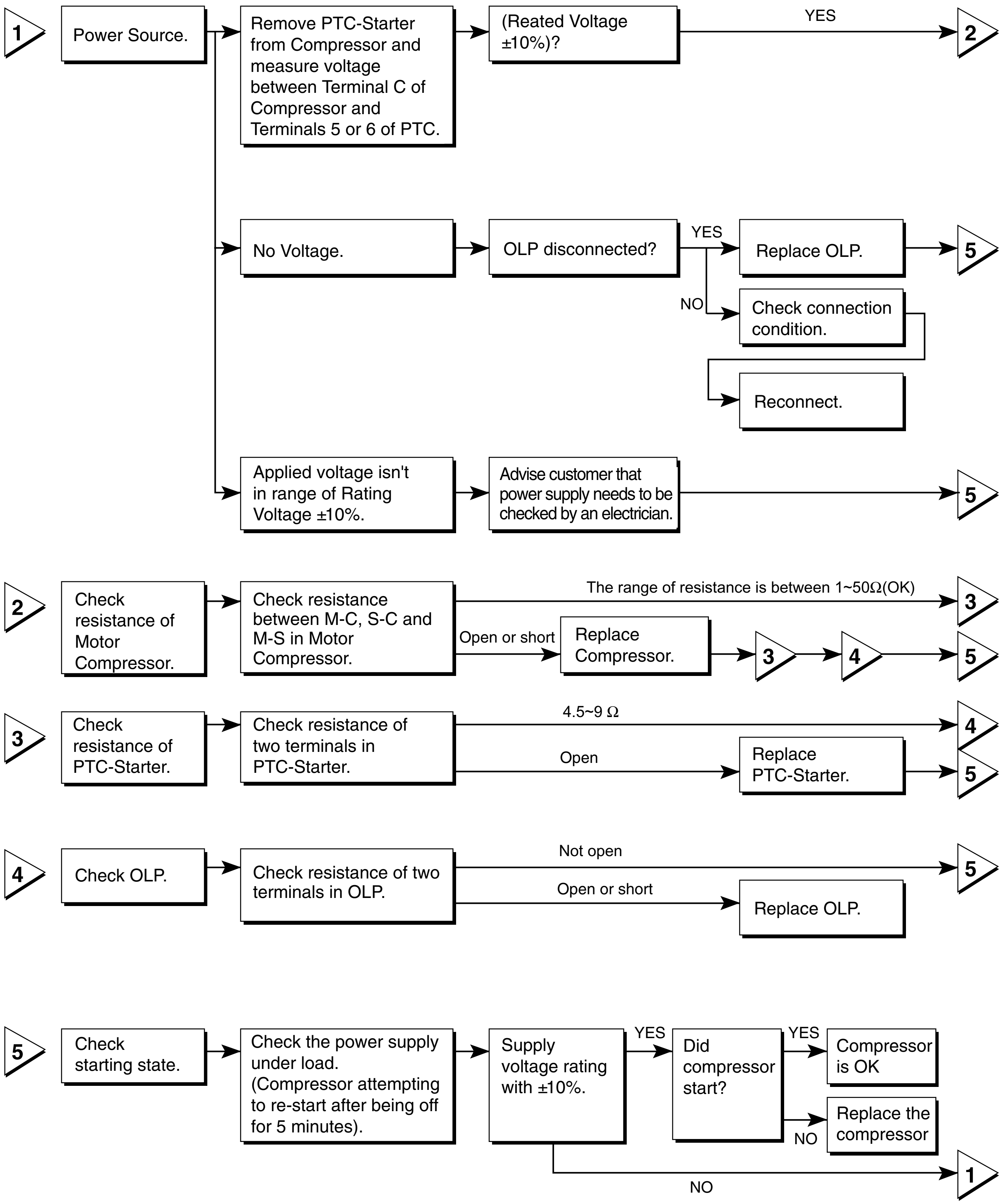
DIAGRAMA ELECTRICO - CIRCUIT DIAGRAM



BK: NEGRO/BLACK	BN: CAFE/BROWN	RD: ROJO/RED	BO: NARANJA/BRIGHT ORANGE	
YL: AMARILLO/YELLOW	GN: VERDE/GREEN	BL: AZUL/BLUE	PR: VIOLETA/PURPLE	GY: GRIS/GRAY
WH: BLANCO/WHITE	SB: AZUL CIELO/SKY BLUE		PK: ROSA/PINK	

6. TROUBLESHOOTING

6-1 COMPRESSOR AND ELECTRIC COMPONENTS



6-2 PTC AND OLP

Normal operation of Compressor is impossible or poor.

→ Separate PTC-Starter from Compressor and measure resistance between No. 5 and 6 of PTC-Starter with a Tester. (Figure 14)

- → Observation value is 115V/60Hz : 6.8Ω±30%
- → The resistance value is 0Ω (short) or ∞ (open). → Replace PTC-Starter.

→ Separate OLP from Compressor and check resistance value between two terminals of OLP with a Tester. (Figure 15)

- Shows continuity → Check another electric component.
- Open → Replace OLP.

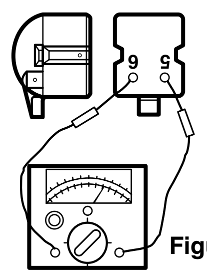
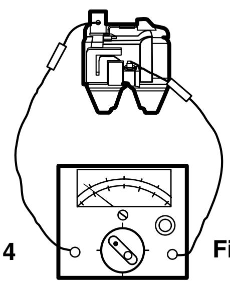


Figure 14


Figure 15

6-3 OTHER ELECTRICAL COMPONENTS

▼ Not cooling at all

Compressor doesn't run. ⇨ **Check for open short or incorrect resistance readings in the following components**

Check	Cause
a. Starting devices	Short, open, or broken.
b. OLP	Poor contact or shorted.
c. Compressor coil	Coil open or shorted.
d. Wiring harness	Poor contact or shorted.

⇨ Replace indicated component.

▼ Poor cooling performance

Compressor runs poorly.

- Check starting voltage. → Low voltage. → Advise customer that the Power supply needs to be checked by an electrician.
- Check voltage at starting devices. → Poor or broken or open contact. → Replace indicated component.
- Check current flowing in sub-coil of Compressor. → Shorted. → Replace indicated component.
- Check rating of OLP. → Lack of capacity. → Replace indicated component.

Fan motor doesn't run.

- Check wiring circuit. → Wire is open or shorted. → Replace indicated component.
- Check Fan Motor. → Coil is shorted or open. → Replace indicated component.

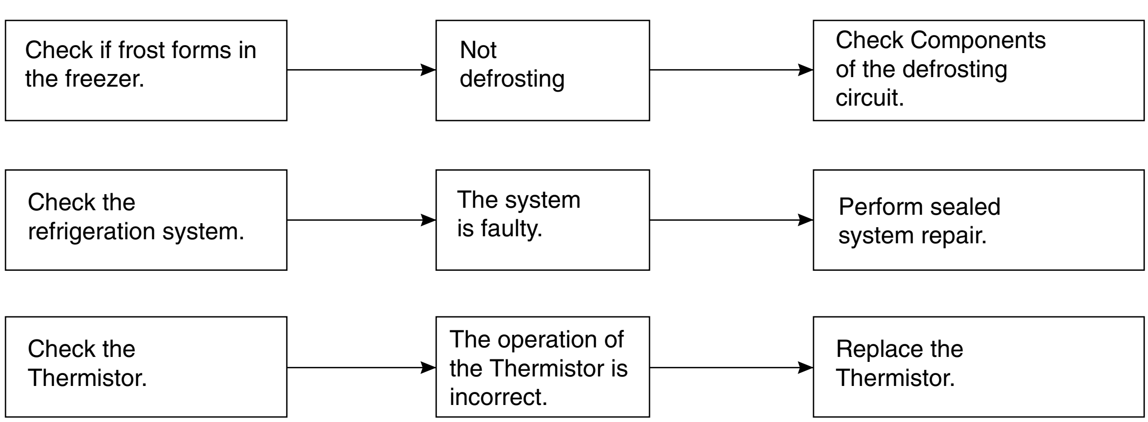
Heavy frost buildup on EVAPORATOR.

- Check current flow in the following components: Sensor, Fuse-M → Open. → Replace indicated component.
- Check current flow in the Defrost Heater. → Open. → Replace Defrost Heater.

6-4 SERVICE DIAGNOSIS CHART

COMPLAINT	POINTS TO BE CHECKED	REMEDY
No Cooling.	• Is the power cord unplugged from the outlet? • Check if the power switch is set to OFF. • Check if the fuse of the power switch is shorted. • Measure the voltage of the power outlet.	• Plug into the outlet. • Set the switch to ON. • Replace the fuse. • If the voltage is low, correct the wiring.
Cools poorly.	• Check if the unit is placed too close to the wall. • Check if the unit is placed too close to the stove, gas cooker, or in direct sunlight. • Is the ambient temperature too high or the room door closed? • Check if food put in the refrigerator is hot. • Did you open the door of the unit too often or check if the door is sealed properly? • Check if the Control is set to **Warm position**.	• Place the unit about 4 inches (10 cm) from the wall. • Place the unit away from these heat sources. • Lower the ambient temperature. • Put in foods after they have cooled down. • Don't open the door too often and close it firmly. • Set the control to **Recommended position**.
Foods in the Refrigerator are frozen.	• Is food placed in the cooling air outlet? • Check if the control is set to **colder position**. • Is the ambient temperature below 41°F(5°C)?	• Place foods in the high-temperature section. (front part) • Set the control to **Recommended position**. • Set the control to **Warm position**.
Condensartion or ice forms inside the unit.	• Is liquid food sealed? • Check if food put in the refrigerator is hot. • Did you open the door of the unit too often or check if the door is sealed properly?	• Seal liquid foods with wrap. • Put in foods after they have cooled down. • Don't open the door too often and close it firmly.
Condensartion forms in the Exterior Case.	• Check if the ambient temperature and humidity of the surrounding air are high. • Is there a gap in the door gasket?	• Wipe moisture with a dry cloth. It will disappear in low temperature and humidity. • Fill up the gap.
There is abnormal noise.	• Is the unit positioned in a firm and even place? • Are any unnecessary objects placed in the back side of the unit? • Check if the Drip Tray is not firmly fixed. • Check if the cover of the compressor enclosure in the lower front side is taken out.	• Adjust the Leveling Screw, and position the refrigerator in a firm place. • Remove the objects. • Fix the Drip Tray firmly in the original position. • Place the cover in its original position.
Door does not close well.	• Check if the door gasket is dirty with an item like juice. • Is the refrigerator level? • Is there too much food in the refrigerator?	• Clean the door gasket. • Position in the firm place and level the Leveling Screw. • Make sure food stored in shelves does not prevent the door from closing.
Ice and foods smell unpleasant.	• Check if the inside of the unit is dirty. • Are foods with a strong odor unwrapped? • The unit smells of plastic.	• Clean the inside of the unit. • Wrap foods that have a strong odor. • New products smell of plastic, but this will go away after 1-2 weeks.

● Other possible problems:



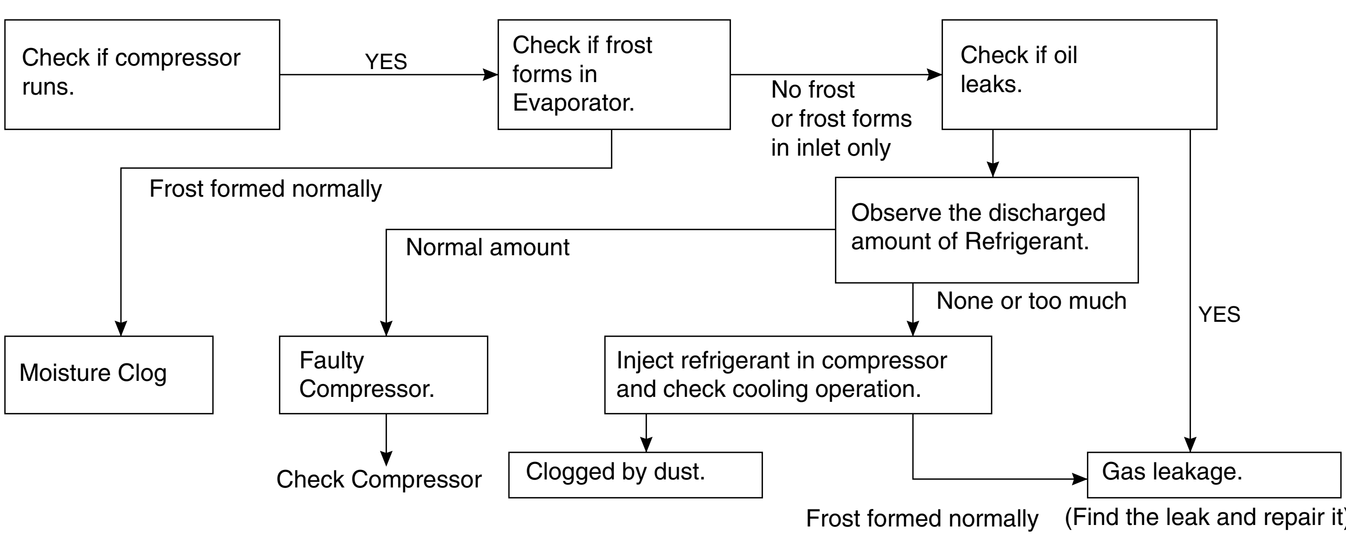
6-5 REFRIGERATION CYCLE

▼ Troubleshooting Chart

CAUSE		STATE OF THE UNIT	STATE OF THE EVAPORATOR	TEMPERATURE OF THE COMPRESSOR	REMARKS
LEAKAGE	PARTIAL LEAKAGE	Freezer compartment and Refrigerator don't cool normally.	Low flowing sound of Refrigerant is heard and frost forms in inlet only.	A little higher than ambient temperature.	• Refrigerant level is low due to a leak. • Normal cooling is possible by restoring the normal amount of refrigerant and repairing the leak.
LEAKAGE	COMPLETE LEAKAGE	Freezer compartment and Refrigerator don't cool normally.	Flowing sound of refrigerant is not heard and frost isn't formed.	Equal to ambient temperature.	• No discharging of Refrigerant. • Normal cooling is possible by restoring the normal amount of refrigerant and repairing the leak.
CLOGGED BY DUST	PARTIAL CLOG	Freezer compartment and Refrigerator don't cool normally.	Flowing sound of refrigerant is heard and frost forms in inlet only.	A little higher than ambient temperature.	• Normal discharging of the refrigerant. • The capillary tube is faulty.
CLOGGED BY DUST	WHOLE CLOG	Freezer compartment and Refrigerator don't cool.	Flowing sound of refrigerant is not heard and frost isn't formed.	Equal to ambient temperature.	• Normal discharging of the Refrigerant.
MOISTURE CLOG		Cooling operation stops periodically.	Flowing sound of refrigerant is not heard and frost melts.	Lower than ambient temperature.	• Cooling operation restarts when heating the inlet of the capillary tube.
DEFECTIVE COMPRESSION	COMP-RESSION	Freezer and Refrigerator don't cool.	Low flowing sound of refrigerant is heard and frost forms in inlet only.	A little higher ambient temperature.	• Low pressure at high side of compressor due to low refrigerant level.
DEFECTIVE COMPRESSION	NO COMP-RESSION	No compressing operation.	Flowing sound of refrigerant is not heard and there is no frost.	Equal to ambient temperature.	• No pressure in the high pressure part of the compressor.

▼ Leakage Detection

- Observe the discharging point of the refrigerant, which may be in the oil discharging part of the compressor and in a hole in the evaporator.



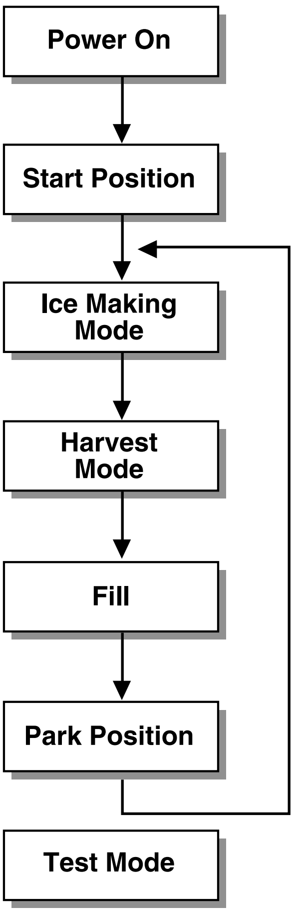
▼ **General Control of Refrigerating Cycle**

NO.	ITEMS		UNIT	STANDARDS	PURPOSES	REMARKS
1	Pipe and piping system opening time		Min.	Pipe: within 1 hour. Comp: within 10 minutes. Drier: within 20 minutes.	To protect moisture penetration.	The opening time should be reduced to a half of the standards during rain and rainy seasons (the penetration of water into the pipe is dangerous).
2	Welding		Nitrogen pressure	Weld under Nitrogen atmosphere. (N_2 pressure: 0.1~0.2 kg/cm^2)	To protect oxide scale formation.	- Refer to repair note in each part. - R-134a refrigerant is more susceptible to leaks than R-12 and requires more care during welding. - Do not apply force to pipes before and after welding to protect pipe from cracking.
3	N_2 sealed parts		Confirm N_2 leak	Confirm the sound of pressure relief when removing the rubber cap. Sound: usable No sound: not usable	To protect moisture penetration.	- In case of evaporator parts, if it doesn't make sound when removing rubber cap, blow dry air or N_2 gas for more than 1 min. and than use the parts.
4	Refrige-ration Cycle	Evacuation time	Min.	More than 40 minutes	To remove moisture.	
		Vacuum degree	Torr	Below 0.03 (ref)		Note: Only applicable to the model equipped with reverse flow protect plate.
		Vacuum	EA	High and low pressure sides are evacuated at the same time for models above 200 *l*.		Vacuum efficiency can be improved by operating compressor during evacuation.
		Vacuum piping	EA	Use R-134a manifold exclusively.	To protect mixing of mineral and ester oils.	The rubber pipes for R-12 refrigerant will be melted when they are used for R-134a refrigerant (causes of leak.)
		Pipe coupler	EA	Use R-134a manifold exclusively.	To protect R-12 refrigerant mixing.	
		Outlet (Socket)		R-134a manifold exclusively.	To protect R-12 refrigerant mixing.	
		Plug		R-134a manifold exclusively.	To protect R-12 refrigerant mixing.	
5	Refrigerant weighing		EA	Use R-134a exclusively. Weighing allowance: ±5g Note: Winter: -5g Summer: +5g	Do not mix with R-12 refrigerant.	- Do not weigh the refrigerant at too hot or too cold an area. (77°F [25°C] is adequate.) - Make Copper charging canister (Device filling refrigerant) Socket: 2SV Plug: 2PV R-134a Note: Do not burn O-ring (bushing) during welding.
6	Drier replacement			- Use R-134a exclusively for R-134a refrigerator. - Replace drier whenever repairing refrigerator cycle piping.	To remove the moisture from pipe inside.	
7	Leak check			- Do not use soapy water for check. It may be sucked into the pipe by a vacuum.	Defect in refrigerant leak area.	- Check for an oil leak at the refrigerant leak area. Use an electronic leak detector if an oil leak is not found. - The electronic leak detector is very sensitive to halogen gas in the air. It also can detect R-141b in urethane. Practice many times before using this type of detector to avoid false readings.

7. OPERATION PRINCIPLE AND REPAIR METHOD OF ICEMAKER

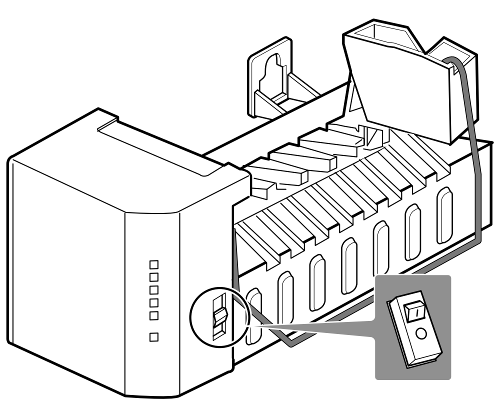
7-1 OPERATION PRINCIPLE

7-1-1 Operation Principle of IceMaker



- Adjusts EJECTOR to **Start Position** with power on.
- Waits until water becomes cold after starting the ice making operation.
- Runs MOTOR to drop ice from the tray the ICE BIN.
- Performs **Ice Making Mode** after supplying water by operating the SOLENOID in ICE VALVE.
- With the detect lever, checks if the ICE BIN is full.
- To operate LINE and SERVICE, press and hold the **Fill Key** for 3 seconds. The ice maker will run through 3 stages: **Harvest**→**Fill**→**Icemaking**.

1. Turning the Icemaker stop switch off (O) stops the ice making function.
2. Setting the Icemaker switch to OFF and then turning it back on will reset the icemaker control.



7-2 CONTROL METHOD ACCORDING TO FUNCTIONS

7-2-1 Start Position

1. After POWER OFF or Power Outage, check the EJECTOR's position with MICOM initialization to restart.
2. How to check if it is in place:
   - Check **HIGH/LOW** signals from HALL SENSOR in MICOM PIN.
3. Control Method to check if it is in place:
   (1) EJECTOR is in place,
      - It is an initialized control, so the mode can be changed to ice making control.
   (2) EJECTOR isn't in place:
      A. If EJECTOR is back in place within 2 minutes with the motor on, it is being initialized. If not, go to Step B.
      B. If EJECTOR is back in place within 18 minutes with the heater on (to control Heater on its OFF condition), it is being initialized. If not, it is not functioning. Repeat Step B with Heater and Motor off.

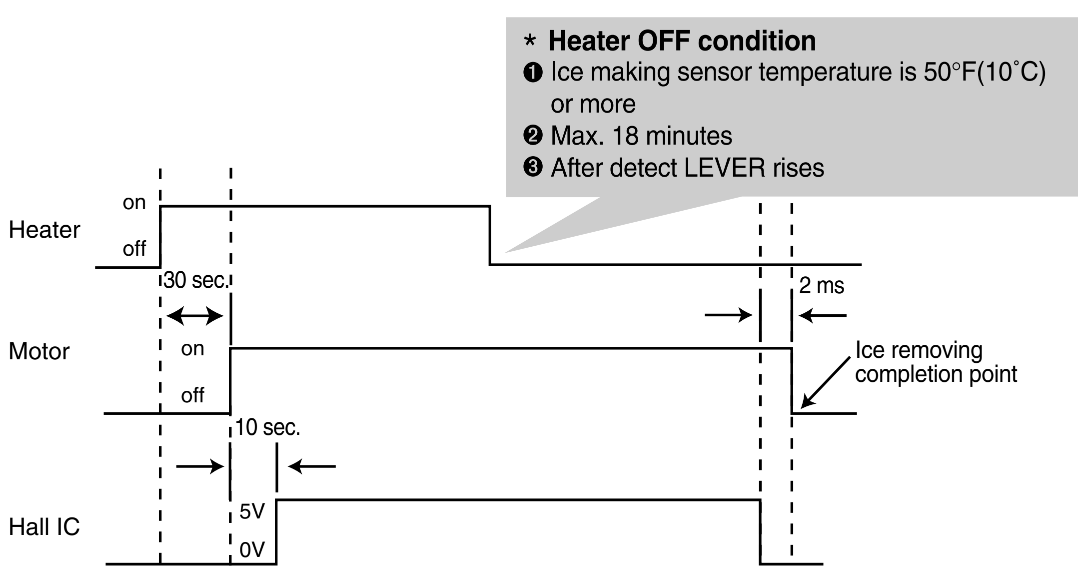
7-2-2 Ice Making Mode

1. Ice Making control refers to the freezing of supplied water in the ice trays. Complete ice making operations by measuring the temperature of the Tray with Ice-Making SENSOR.
2. Ice Making starts after completing fulfilled ice control and initial control.
3. The Ice Making function is completed when the sensor reaches 19°F(-7°C), 60 to 240 minutes after starting.
4. If the temperature sensor is defective, the ice-making function will be completed in 4 hours.

7-2-3 Harvest Mode

1. Ice-removing control refers to the operation of dropping cubes into the ice bin from the tray when ice-making has completed.
2. Ice removing control mode:
   (1) Operates Heater for 30 seconds; then operate MOTOR.
   (2) After performing Step 1 (to control the Heater on its off condition), Ice-Removal control will be back in place wthin 18 minutes. (Hall SENSOR sign = OV). Ice removal is then complete. Then change the mode to the water supply control. If this control phase fails to start, it is not functioning. Put the Heater and Motor in the off position. Restart every 2 hours. (Refer to fig.1)

NOTE : If the motor malfunctions and starts before the detect lever rises, MICOM regards the Ice-Removing phase as completed. Water then starts flowing. To prevent this, MICOM doesn’t switch to water-supply mode, but restarts the ice-removing mode. If this happens 3 times, the motor is malfunctioning and you should stop the loads (Heater, Motor). Then restart the Ice-Removing mode every 2 hours. (See Step 2 above.)

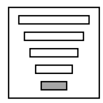
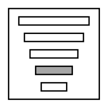
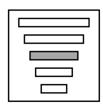
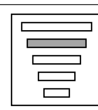
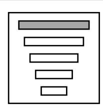


<fig1. Ice removing process>

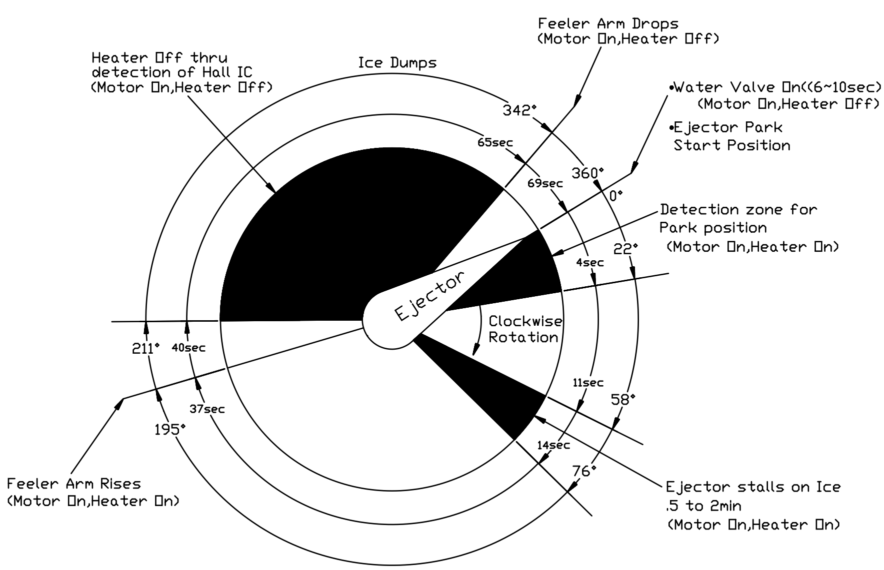
7-2-4 Fill / Park Position

1. When Ice-Removing control (Normal Ice-Removing control, Ice-Removing control for test) has completed, and the EJECTOR is in place, this control operates the ICE SOLENOID by time check in the compressor enclosure of the refrigerator. Then it supplies water to the ice making tray.
2. Water supply level is adjustable in levels 1-5 by pressing the water supply control Switch and fill time will be determined by the selected level.

Water supply amount TABLE

STAGE	TIME TO SUPPLY	INDICATIONS	REMARKS
1	6 sec.		The water amount will vary depending on the water control Switch setting, as well as the water pressure of the connected water line.
2	7 sec.		
3	8 sec.		
4	9 sec.		
5	10 sec.		

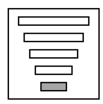
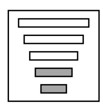
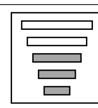
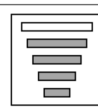
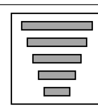
NOTE : Below is an example used by another vendor as an explanation of what is taking place.



7-2-5 Function TEST

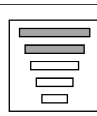
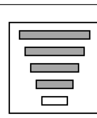
1. This is a compulsory operation for TEST, SVC, cleaning, etc. It is operated by pressing the water supply control KEY for 3 seconds.
2. It operates in the Ice Making mode, but not in the Ice-Removing mode or water supply process. (If there is an ERROR, it can only be checked in the TEST mode.)
3. If the water supply control KEY is pressed for 3 seconds in the Ice-Making mode (no matter what condition the Ice-Making tray is in) the Ice-Removing operation starts immediately. Water is not yet frozen, so water is poured instead of ice. If the control doesn't operate normally in the TEST mode, check and repair as needed.
4. After water is supplied, the normal CYCLE is followed: **ice making** → **Harvest** → **Fill** → **Park Position**.
5. When Stage 5 is completed in the TEST mode, minimize MICOM in 5 seconds, the time needed to supply water resets to the previous status in the TEST mode.

Diagnosis TABLE

STAGE	ITEMS	INDICATOR	REMARKS
1	HEATER		Five seconds after heater starts, heater will go off if temperature recorded by sensor is 10°C or lever is in up position.
2	MOTOR		Five seconds after heater starts, you can confirm that motor is moving.
3	HALL IC (detection of position) I		You can confirm Hall Ic detection of position.
4	VALVE		Two seconds after detection of initial position, you can confirm that valve is on.
5	HALL IC (detection of full-filled Ice) II		You can check whether hall is sensing Full ice condition. (If there is a full-filled error, the fifth LED is not on.)
6	reset	Mark previous status on TEST mode	Five seconds after fifth stage is completed, the icemaker reset at initial status.

7-3 DEFECT DIAGNOSIS FUNCTION

7-3-1 ERROR CODES shown on Ice Maker water supply control panel

NO	DIVISION	INDICATOR	CONTENTS	REMARKS
1	Normal	Mark time to supply	None	Display switch operates properly
2	Ice-Making Sensor malfunction		Cut or short-circuited wire	Make sure that the wire on each sensor is connected.
3	Ice Maker Kit malfunction		When ejector blades don't reach park position over 18 minutes since Harvest Mode starts.	Defects of HALL IC/MOTOR/ HEATER/RELAY

ERROR indicators in table can be checked only in TEST mode.

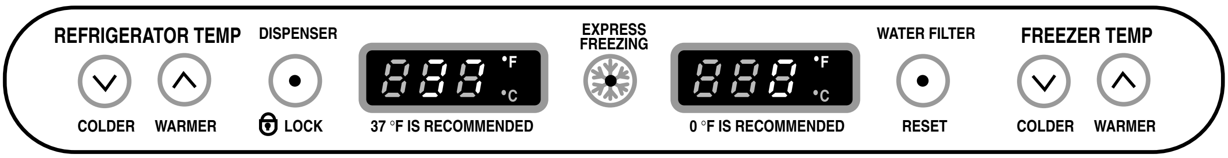
8. DESCRIPTION OF FUNCTION & CIRCUIT OF MICOM

8-1 FUNCTION

8-1-1 Function

1. When the appliance is plugged in, it is set to 37 °F for the Refrigerator and 0 °F for the Freezer.
   You can adjust the Refrigerator and the Freezer control temperature by pressing the COLDER button or the WARMER button.
2. When the power is initially applied or restored after a power failure, it is set to the setting temperature as you set before power off. (applied to DISPENSER MODEL)

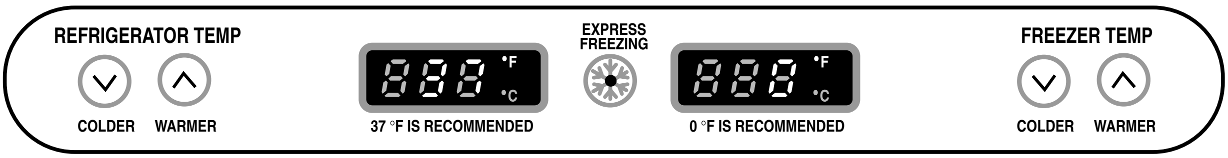
DISPENSER MODEL



Control range : 32°F ~ 46°F
0°C ~ 8°C

Control range : -6°F ~ 9°F
-21°C ~ -13°C

BEST MODEL



Control range : 32°F ~ 46°F
0°C ~ 8°C

Control range : -6°F ~ 9°F
-21°C ~ -13°C

8-1-2 How to Change the Temperature Mode to °F / °C

1. The setting temperature mode can be changed to °F / °C by pressing and holding COLDER key of Freezer and COLDER key of Refrigerator over 1 seconds. at the same time.
2. The initial setting is °F. Whenever the mode is changed, the LED lights are changed.

8-1-3 Dispenser Lock

1. Press and hold the DISPENSER LOCK button for 3 seconds to lock the dispenser.
2. When locked, the LED is off and the dispenser function is turned off.
3. Press and hold the DISPENSER LOCK button again for 3 seconds to unlock the dispenser. The LED will be on and the dispenser will function normally.

8-1-4 CONTROL OF FREEZER FAN MOTOR

1. Freezer fan motor has high and standard speeds.
2. High speed is used at power-up, for express freezing, and when refrigerator is overloaded.
   Standard speeds is used for general purposes.
3. To improve cooling speed, the RPM of the freezer fan motor change from normal speed to high.
4. High speed (2700RPM) : Initial power on or load corresponding operation, express freezing.
   Normal speed (2400RPM) : General working conditions.
5. Fan motor stops when refrigerator or freezer door opens.

8-1-5 EXPRESS FREEZING

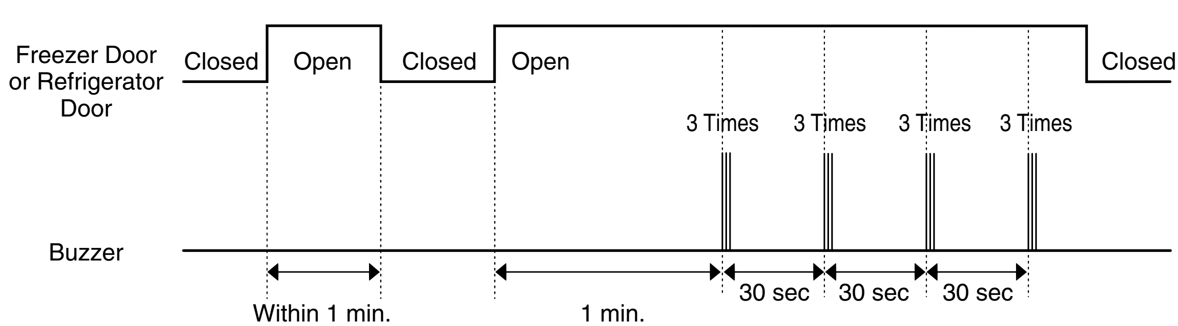
1. The purpose of this function is to intensify the cooling speed of freezer and to increase the amount of ice.
2. Whenever selection switch is pressed, selection/release, the LED will turn ON or OFF.
3. If there is a power cutage and the refrigerator is power on again, EXPRESS FREEZING function will be canceled.
4. To activate these function, to press the Express Freezing key and the LED will turn ON. This function will remain activated for 24 hrs. The first three hours the compressor and Freezer Fan will be ON. The next 21 hours the freezer will be controlled at the lowest temperature. After 24 hours or if the Express Freezing key is pressed again, the freezer will return to its previous temperature.
5. For the first three hours notice the following cases:
   (1) Compressor and freezer fan (HIGH RPM) continuously operate for three hours.
   (2) If defrost starts during EXPRESS FREEZING, EXPRESS FREEZING operates for the rest of time after defrost is completed, when EXPRESS FREEZING operation time is less than 90 minutes.
   If EXPRESS FREEZING operates for more than 90 minutes, the EXPRESS FREEZING will operate for two hours after defrost is completed.
   (3) If EXPRESS FREEZING is pressed during defrost, EXPRESS FREEZING LED is on but this function will start seven minutes after defrost is completed and it shall operate for three hours.
   (4) If EXPRESS FREEZING is selected within seven minutes after compressor has stopped, the compressor (compressor delays seven minutes) shall start after the balance of the delay time.
   (5) The fan motor in the freezer compartment runs at high speed during EXPRESS FREEZING .
6. For the rest of the 21 hours, the freezer will be controlled at the lowest temperature.

8-1-6 REFRIGERATOR LAMP AUTO OFF

1. To avoid heat damage caused by the lamp, it is turned off automatically when the refrigerator door is open for more than 7 minutes.

8-1-7 Alarm for Open Door

1. This feature sounds a buzzer when the freezer or refrigerator door is not closed within 1 minute after it is opened.
2. One minute after the door is opened, the buzzer sounds three times each for 1/2 seconds. These tones repeat every 30 seconds.
3. The alarm is cancelled when the freezer or the refrigerator is closed while the buzzer sounds.



8-1-8 Buzzer Sound

When the button on the front Display is pushed, a Ding~ Dong~ sound is produced.
(Refer to the Buzzer Circuit 8-2-4 No. 3)

8-1-9 Defrosting (removing frost)

1. Defrosting starts each time the COMPRESSOR running time reaches 7 hours.
2. For initial power on or for restoring power, defrosting starts when the compressor running time reaches 4 hours.
3. Defrosting stops if the sensor temperature reaches 46.4°F(8°C) or more. If the sensor doesn't reach 46.4°F(8°C) in 2 hours, the defrost mode is malfunctioning. (Refer to the defect diagnosis function, 8-1-13.)
4. Defrosting won't function if its sensor is defective (wires are cut or short circuited)

8-1-10 Filter Replacement Indication

1. In 6 months after the UNIT (refrigerator) is power on, or after 28,000 seconds of dispenser use, the water filter Indicator LED (red color) will be ON.
2. When the water filter indicator LED is illuminated, you should change the water filter. After this, you must press the water filter button for three seconds and you will hear a ding-dong sound.
   The LED will be OFF. This operation will indicate that the UNIT is reset to its initial conditions, so this process is restarted.

8-1-11 Power Failure Compensation Function

1. When the UNIT is power off, the Fresh Food and Freezer Temperature notches, the filter elapsed time for replacement, the temperature mode (°C or °F) and the dispenser lock mode are saved in the EEPROM.
2. When the UNIT is power on, the MICOM will read the specified EEPROM addresses to restore the values indicated in the previous paragraph.

8-1-12 Electrical Parts Are Turned On Sequentially

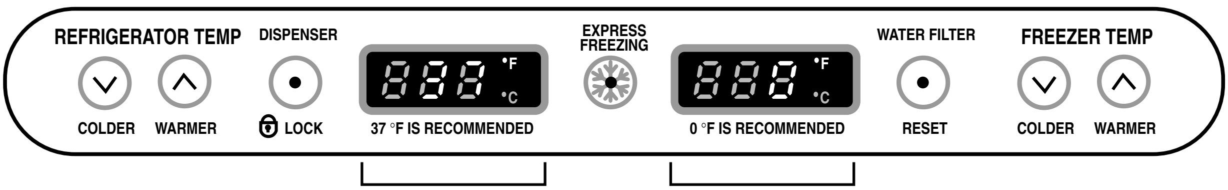
Electrical parts such as COMP, defrosting heater, freezer FAN, etc. are turned on in the following order to prevent noise and parts damage. Several parts are started at the same time at initial power on and are turned off together when TEST is completed.

OPERATING		ORDERS
Initial power on	Temperature of Defrosting Sensor is 113°F(45°C) or more (when unit is newly purchased or when moved)	**POWER ON** → in 1/2 second → **COMP ON** → in 1/2 second → **Freezer FAN ON**
	Temperature of defrosting sensor is lower than 113°F(45°C) (when power cuts, SERVICE)	**POWER ON** → in 1/2 second → **Defrosting heater ON** → in 10 second → **Defrosting heater OFF** → in 1/2 second → **COMP ON** → in 1/2 second → **Freezer FAN ON**
Reset to normal operation from TEST MODE		**Total load OFF** → in 7 minute → **COMP ON** → in 1/2 second → **Freezer FAN ON**

8-1-13 Defect Diagnosis Function

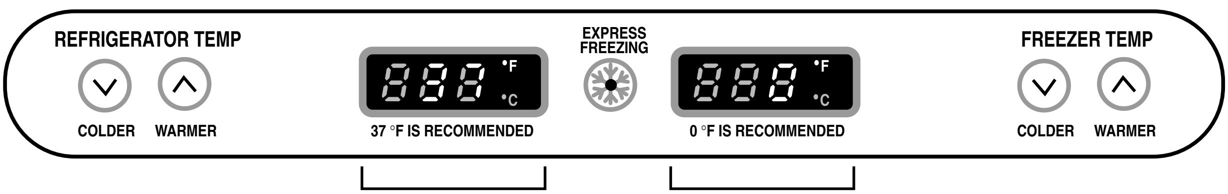
1. Automatic diagnosis makes servicing the refrigerator easy.
2. When a defect occurs, the buttons will not operate; but the tones. such as ding. will sound.
3. When the defect CODE removes the sign, it returns to normal operation (RESET).
4. The defect CODE shows on the Refrigerator and Freezer Display.

DISPENSER MODEL



① Defect code signs ② Defect code signs

BEST MODEL



① Defect code signs ② Defect code signs

ERROR CODE on display panel

NO	ITEM	ERROR CODE ①	ERROR CODE ②	CONTENTS	REMARKS
1	Failure of freezer sensor	Er	FS	Cut or short circuit wire	Inspect Connecting wires on each sensor
2	Failure of Refrigerator sensor	Er	rS	Cut or short circuit wire	
3	Failure of defrost sensor	Er	dS	Cut or short circuit wire	
4	Failure of defrost mode	Er	dH	When defrost sensor doesn't reach 8°C within 2 hours after starting defrost.	Snapping of defrost heater or Temperature fuse, pull-out of Connector (indicated minimum 2 Hours after failure occurs)
5	Failure of BLDC FAN MOTOR at freezing compartment.	Er	FF	If there is no fan motor signal For more than 65sec. in Operation fan motor	Poor motor, hooking to Wires of fan, contact of structures to fan, snapping or short circuit of Lead wire

8-1-14 TEST Mode

1. The Test mode allows checking the PCB and the function of the product as well as finding out the defective part in case of an error.
2. The test mode is operated by pressing two buttons at Display panel.
3. While in the test mode, the function control button is not recognized, but the recognition tone (beep~) sounds.
4. After exiting the test mode, be sure to reset by unplugging and then plugging in the appliance.
5. If an error, such as a sensor failure, is detected while in the test mode, the test mode is cleared and the error code is displayed.
6. While an error code is displayed, the test mode will not be activated.

MODE	MANIPULATION	CONTENTS	REMARKS
TEST1	Push Express Freezing key and COLDER KEY of Freezer Temp. at the same time over 3 seconds.	1. Continuous operation of the COMPRESSOR 2. Continuous operation of the freezer fan 3. STEPPING DAMPER OPEN 4. Defrosting Heater OFF 5. Every DISPLAY LED ON	
TEST2	Push Express Freezing key and COLDER KEY of Freezer Temp. at the same time over 3 seconds in TEST MODE 1	1. COMP OFF 2. Freezer FAN OFF 3. STEPPING DAMPER CLOSE 4. Defrosting heater ON 5. DISPLAY LED shows **222**	Reset if the temperature of the Defrosting sensor is 46°F(8°C) or more.
Reset	Push Express Freezing key and COLDER KEY of Freezer Temp. at the same time over 3 seconds. in TEST MODE 2	Reset to the previously setting before TEST MODE	The compressor will Start after a 7-minute delay.

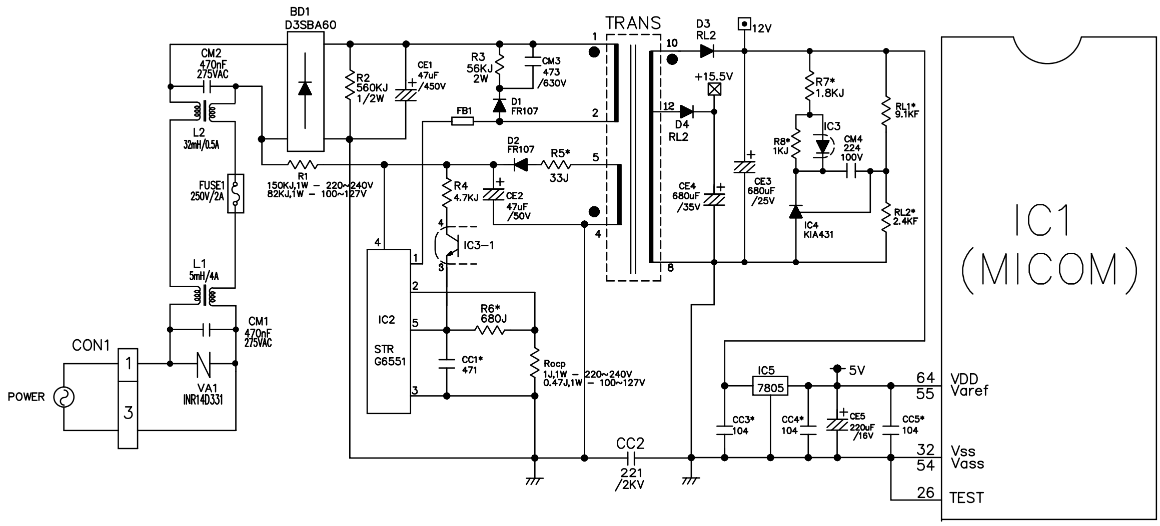
NOTE : LED CHECK MODE: When the WARMER button in the refrigerator temperature control and the WARMER button in the freezer temperature control are pushed and held for 1 second or longer, every LED on the display turns on at the same time. When the buttons are released, the previous mode is restored.

* Freezer Fan RPM Variable Check:
In case the freezer fan is in operation when the WARMER KEY in Refrigerator and Freezer Temp. Control are pressed for more than one second at the same time freezer fan RPM changes. (for example if high speed, to normal speed or if normal speed, to high speed for 30 seconds)
After 30 seconds, it turns to its original RPM.

* Demostration MODE:
1. When the WARMER KEY of refrigerator Temp. control or of freezer Temp. control in the the warmest temperature's status are pushed and held for 3 seconds or longer, It converts to Demonstration Mode.
2. It shows **OFF** on the display panel.
3. In this status, all Loads are off (Compressor / Fan / Damper / Heater)
(Even is Demonstration Mode, the refrigerator Lamp automatic off function warks normally and can be demonstrated)
4. Exit the test mode and reset the display by pressing the COLDER and WARMER buttons.

8-2 PCB FUNCTION

8-2-1 Power Circuit



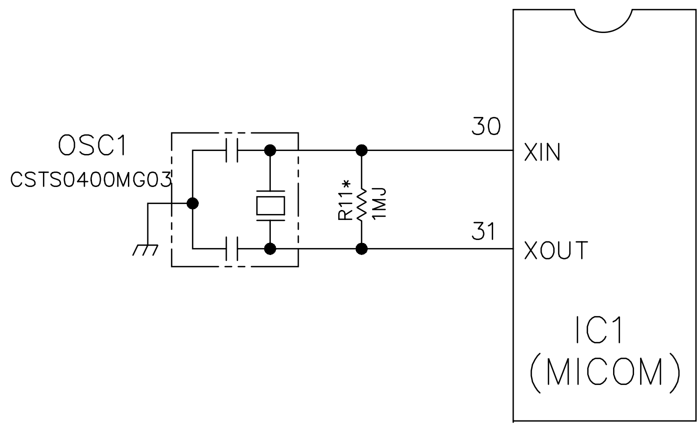
The secondary part of the TRANSFORMER is composed of the power supply for the display, the BLDC FAN Motor drive (15.5 V), the relay drive (12 Vdc) and the MICOM and IC (5 Vdc).

The voltage for each part is as follows:

PART	VA 1	CE 3	CE 4	CE 5
VOLTAGE	115 Vac	12 Vdc	15.5 Vdc	5 V

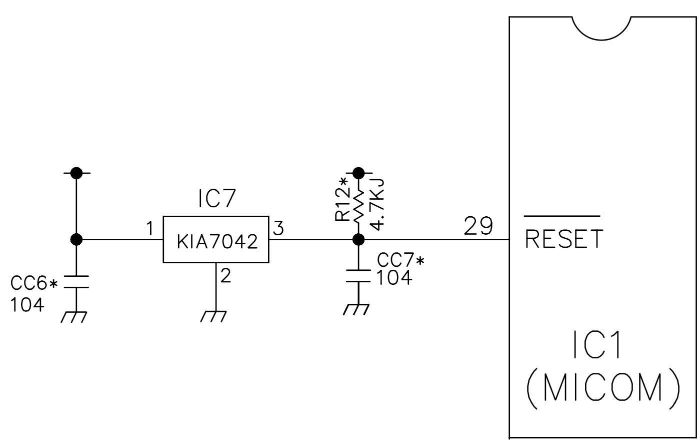
VA1 is a part for preventing over voltage and noise. When 385V or higher power is applied, the inside elements are short-circuited and broken, resulting in blowout of the fuse in order to protect the elements of the secondary part of the TRANSFORMER.

8-2-2 Oscillation Circuit



This circuit generates the base clock for calculating time and the synchro clock for transmitting data from and to the inside logic elements of the IC1 (MICOM). Be sure to use specific replacement parts, since calculating time by the IC1 may be changed. If changed, the OSC1 SPEC will not work.

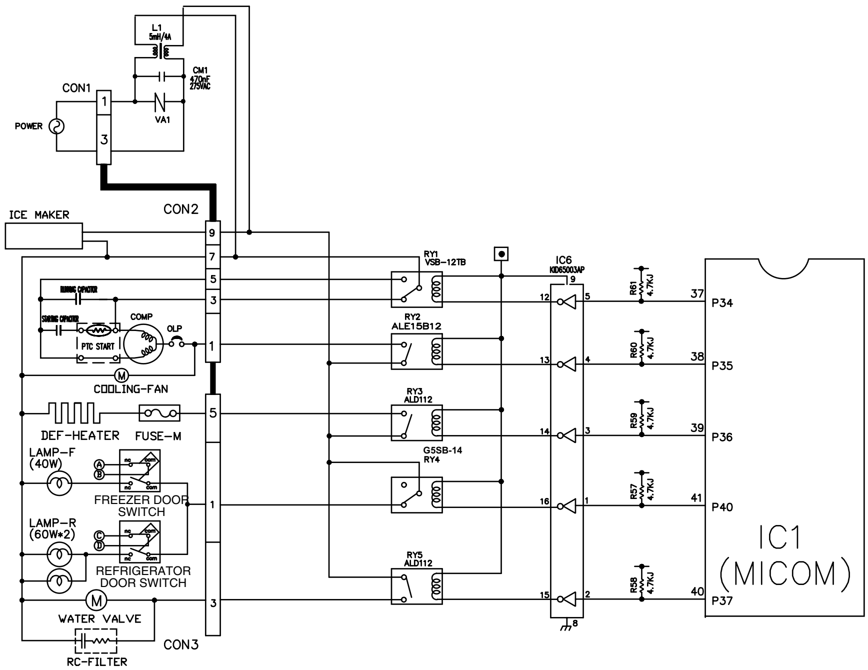
8-2-3 Reset Circuit



The RESET circuit allows all the functions to start at the initial conditions by initializing various parts, including the RAM inside the MICOM (IC1) when the power is initially supplied or the power supply to the MICOM is restored after a momentary power failure. For the initial 10ms of power supply, LOW voltage is applied to the MICOM RESET terminal. During a normal operation, 5V is applied to the RESET terminal. (If a malfunction occurs in the RESET IC, the MICOM will not operate.)

8-2-4 Load / Buzzer Drive & Open Door Detection Circuit

1. Load Drive Condition Check

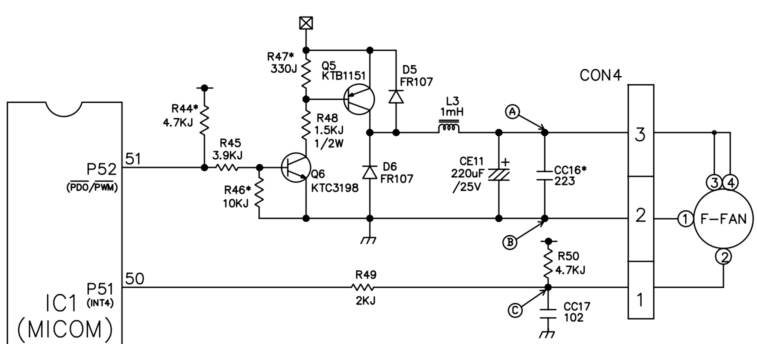


LOAD TYPE		COMP	DEFROSTING HEATER	LAMP	TCM POWER MODE (OPTIONAL)	VALVE (DISPENSER MDL)
Measurement Location (IC6)		NO.13	NO.14	NO.16	NO.12	NO.15
Condition	ON	1V or below				
	OFF	12V				

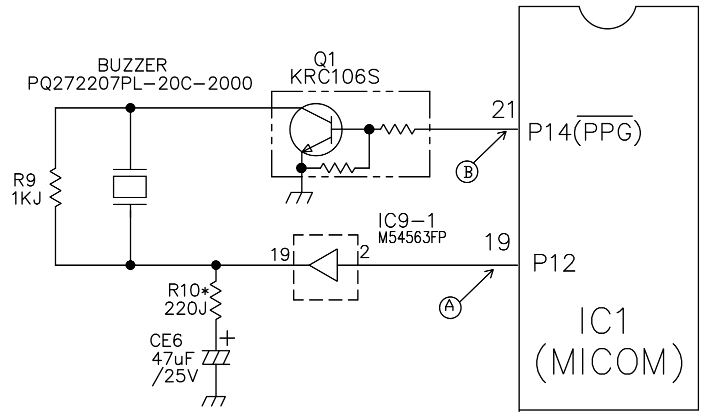
2. Fan motor driving circuit (freezing compartment fan)

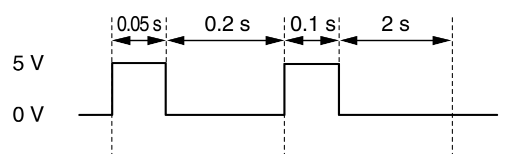
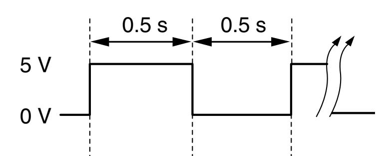
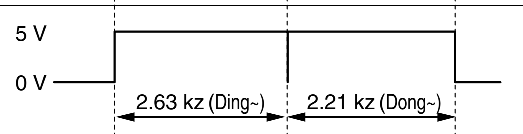
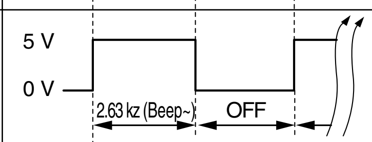
1. This circuit makes standby power **0** by cutting off power supplied to ISs inside of the fan motor in the fan motor OFF.
2. This is a circuit to perform a temporary change of speed for the fan motor and applies DC voltage up to 7.5V ~ 16V to motor.
3. This circuit prevents over-driving the fan motor by cutting off power applied to the fan motor in the lock of fan motor by sensing the operation RPM of the fan motor.

	ⓐ part	ⓑ part	ⓒ part
MOTOR OFF	2V or less	0V	5V
MOTOR ON	13V~15V	0V	2V~3V

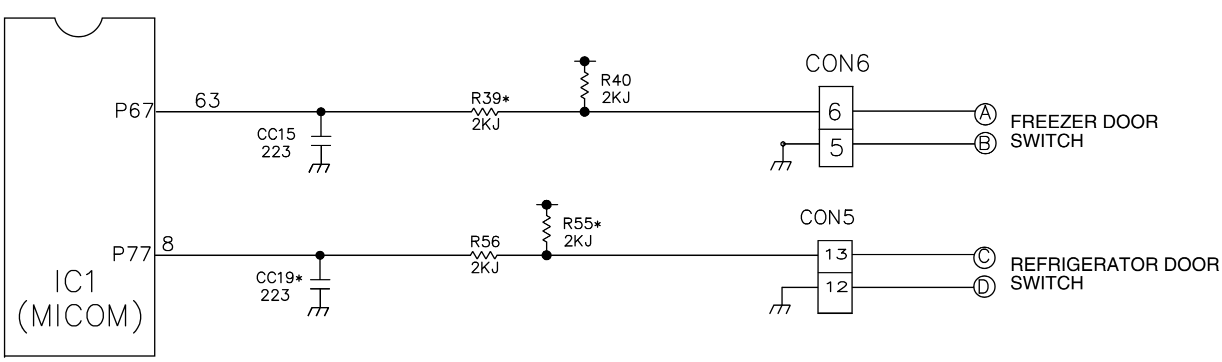


3. Buzzer Drive Condition Check



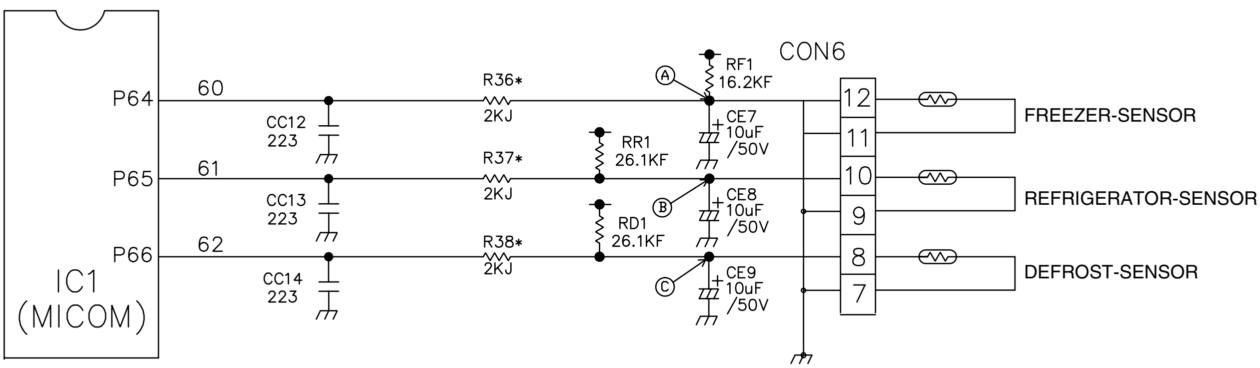
Condition / Measure-ment Location	Tone (Ding~Dong~) when the button on the display is pushed.	Alarm for open door (beep-beep-beep)	OFF
IC1 (Ⓐ)			0 V
IC1 (Ⓑ)			0 V

4. Open Door Detection Circuit Check



Freezer/ Refrigerator Door / Measurement Location	(PIN NO.63 & PIN NO.8)
Closed	5 V
Open	0 V

8-2-5 Temperature Sensor Circuit

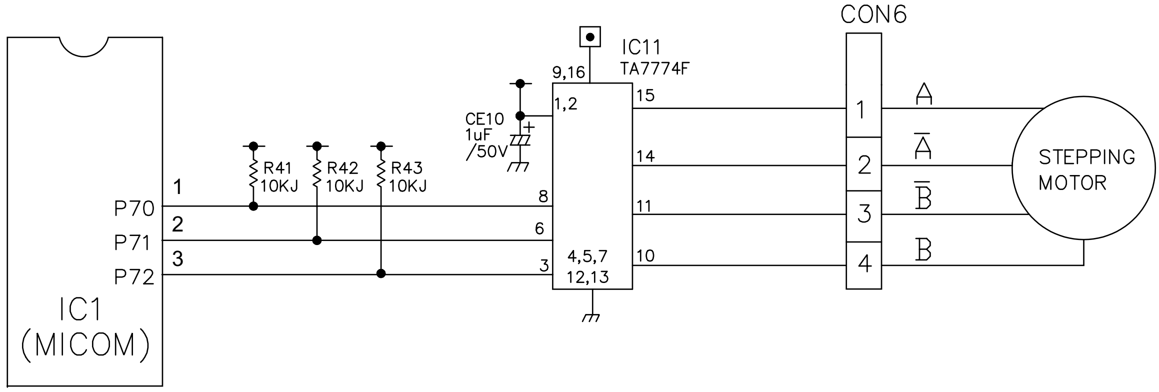


The upper CIRCUIT reads REFRIGERATOR temperature, FREEZER Temperature, and DEFROST-SENSOR temperature for defrosting and the indoor temperature for compensating for the surrounding temperature into MICOM.
OPENING or SHORT state of each TEMPERATURE SENSOR are as follows:

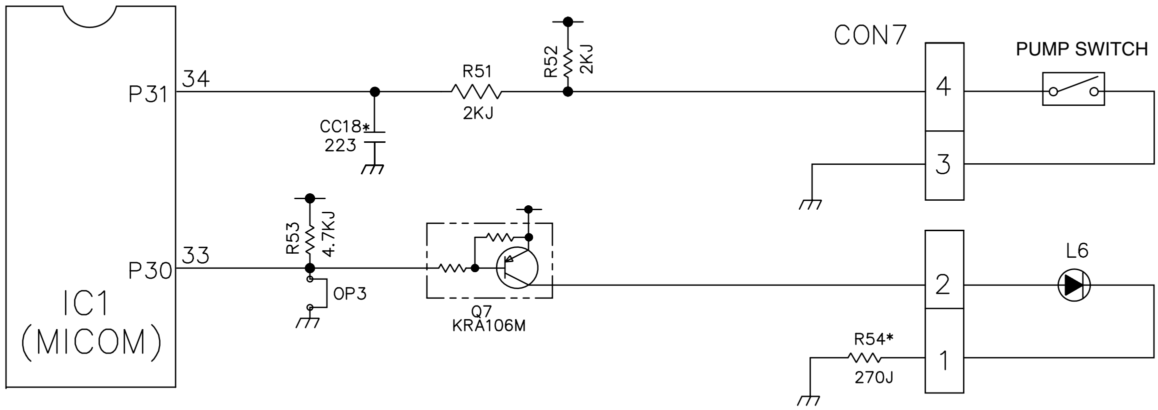
SENSOR	CHECK POINT	NORMAL (-30°C ~ 50°C)	SHORT-CIRCUITED	OPEN
Freezer Sensor	POINT Ⓐ Voltage	0.5 V ~ 4.5 V	0 V	5 V
Refrigerator Sensor	POINT Ⓑ Voltage			
Defrosting Sensor	POINT Ⓒ Voltage			

8-2-6 Refrigeration Compartment Stepping Motor Damper Circuit

* The circuit shown below is the damper circuit to regulate the refrigerator temperature.

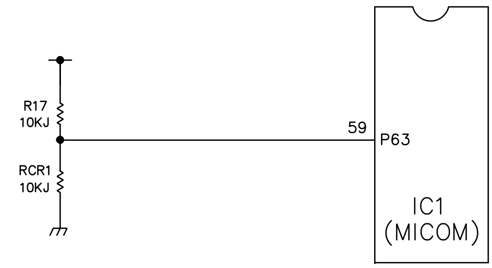


8-2-7 Dispenser Input/LED Output Circuit



8-2-8 Temperature Compensation & Overcooling/Undercooling Compensation Circuit

1. Refrigerator Temperature Compensation



Refrigerator		Remark
Resistance (RCR)	**Temperature Compensation**	
180 KΩ	+2.5℃	Compensation by raising the temperature ↑
56 KΩ	+2.0℃	
33 KΩ	+1.5℃	
18 KΩ	+1.0℃	
12 KΩ	+0.5℃	
10 KΩ	0 ℃	Standard Temperature
8.2 KΩ	-0.5℃	Compensation by lowering the temperature ↓
5.6 KΩ	-1.0℃	
3.3 KΩ	-1.5℃	
2 KΩ	-2.0℃	
470 Ω	-2.5℃	

➧ Table of Temperature Compensation by adjusting the resistance (difference from the current temperature) e.g., If the refrigerator compensation resistance (RCR) is changed from 10K (the current resistance) to 18K (the adjustment resistance), the temperature of the refrigerator rises 33.8°F(+1°C).

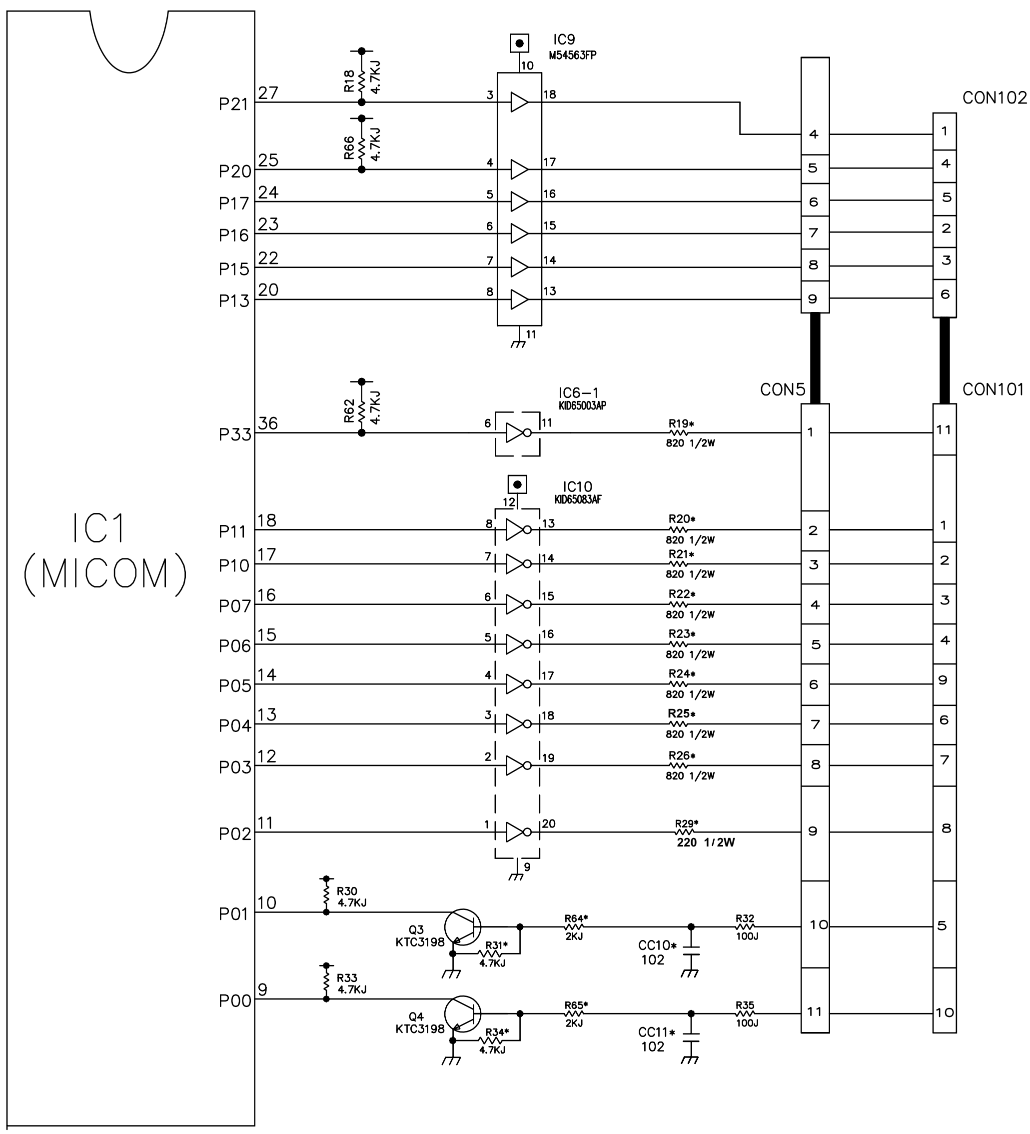
2. The temperature compensation for refrigerator compartment is in the following table:

	Revised resistance / Present resistance	470Ω	2kΩ	3.3kΩ	5.6kΩ	8.2kΩ	10kΩ	12kΩ	18kΩ	33kΩ	56kΩ	180kΩ
Refrigerator (RCR)	470Ω	No change	0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up	3.5°C Up	4°C Up	4.5°C Up	5°C Up
	2kΩ	0.5°C Down	No Change	0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up	3.5°C Up	4°C Up	4.5°C Up
	3.3kΩ	1°C Down	0.5°C Down	No Change	0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up	3.5°C Up	4°C Up
	5.6kΩ	1.5°C Down	1°C Down	0.5°C Down	No Change	0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up	3.5°C Up
	8.2kΩ	2°C Down	1.5°C Down	1°C Down	0.5° Down	No Change	0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up
	10kΩ	2.5°C Down	2°C Down	1.5°C Down	1°C Down	0.5°C Down	No Change	0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up
	12kΩ	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down	0.5°C Down	No Change	0.5°C Up	1°C Up	1.5°C Up	2°C Up
	18kΩ	3.5°C Down	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down	0.5°C Down	No Change	0.5°C Up	1°C Up	1.5°C Up
	33kΩ	4°C Down	3.5°C Down	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down	0.5°C Down	No Change	0.5°C Up	1°C Up
	56kΩ	4.5°C Down	4°C Down	3.5°C Down	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down	0.5°C Down	No Change	0.5°C Up
	180kΩ	5°C Down	4.5°C Down	4°C Down	3.5°C Down	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down	0.5°C Down	No Change

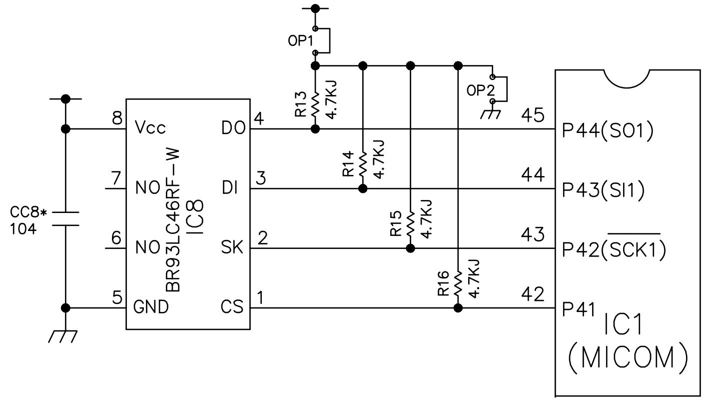
NOTE: This circuit is designed to input the necessary temperature compensation values into the MICOM. This adjusts the refrigerator temperature, which is different in each model.

8-2-9 Key Button Input & Display Light-On Circuit

➧ The circuit shown above determines whether a function control key on the operation display is pushed. It also turns on the corresponding function indication LED (LED Module) SEVEN SEGMENT DISPLAY (SEVEN SEGMENT DISPLAY MODULE). The drive type is the scan type



8-2-10 Power Failure Compensation Circuit (DISPENSER MODEL)



8-3 RESISTANCE SPECIFICATION OF SENSOR

TEMPERATURE DETECTED BY SENSOR	RESISTANCE OF FREEZER SENSOR	RESISTANCE OF REFRIGERATOR & DEFROST SENSOR & ROOM SENSOR
- 20 ˚C	22.3 KΩ	77 KΩ
- 15 ˚C	16.9 KΩ	60 KΩ
- 10 ˚C	13.0 KΩ	47.3 KΩ
- 5 ˚C	10.1 KΩ	38.4 KΩ
0 ˚C	7.8 KΩ	30 KΩ
+ 5 ˚C	6.2 KΩ	24.1 KΩ
+ 10 ˚C	4.9 KΩ	19.5 KΩ
+ 15 ˚C	3.9 KΩ	15.9 KΩ
+ 20 ˚C	3.1 KΩ	13 KΩ
+ 25 ˚C	2.5 KΩ	11 KΩ
+ 30 ˚C	2.0 KΩ	8.9 KΩ
+ 40 ˚C	1.4 KΩ	6.2 KΩ
+ 50 ˚C	0.8 KΩ	4.3 KΩ

- The resistance of the SENSOR has a ±5% common difference.
- Measure the resistance of the SENSOR after leaving it for over 3 minutes in the measuring temperature. This delay is necessary due to sensor response speed.

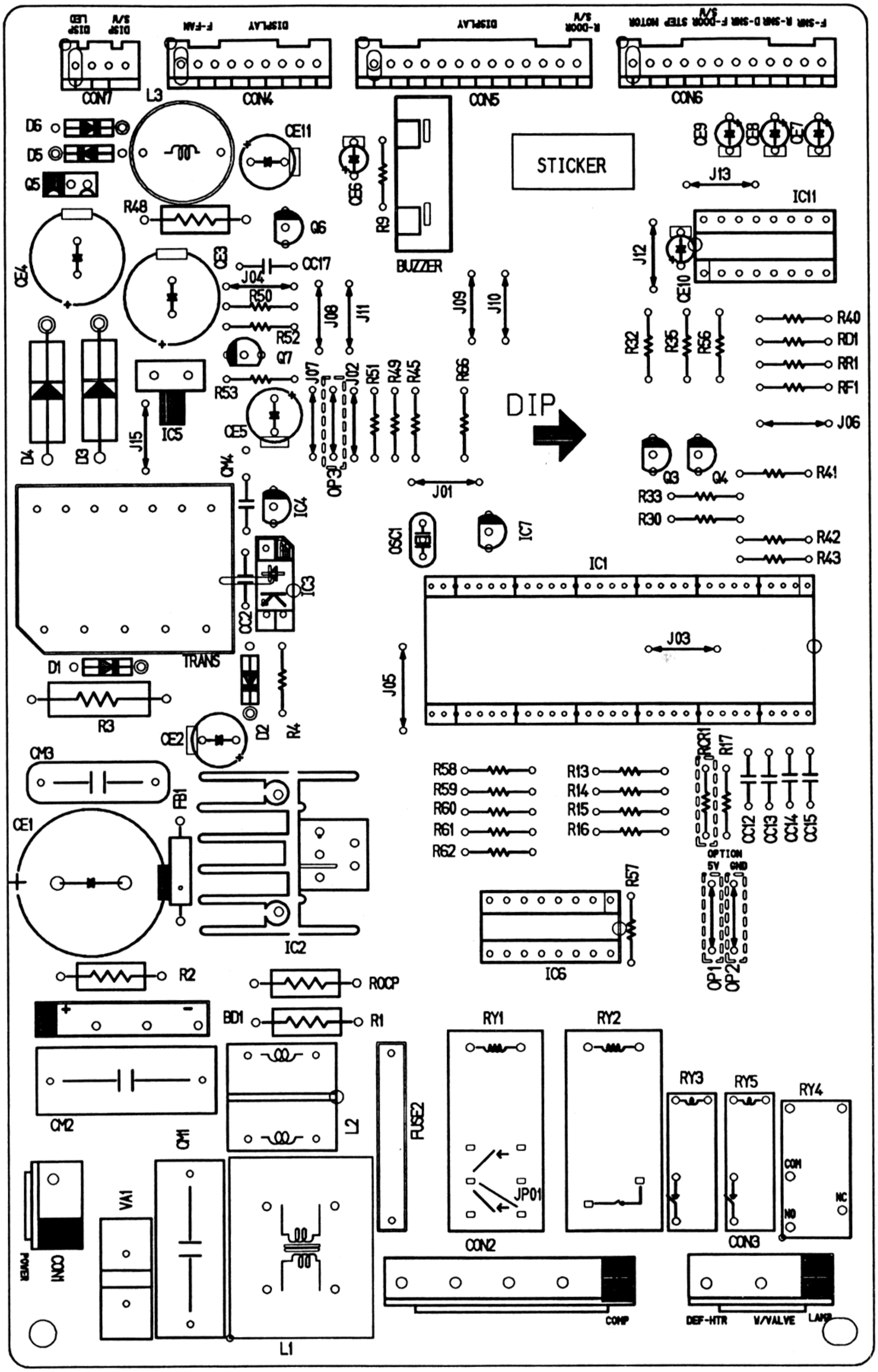
8-4 TROUBLESHOOTING

PROBLEM	INDICATED BY	CHECK	CHECKING METHOD	CAUSE	SOLUTION
POWER SOURCE is poor.	1. The whole DISPLAY LED/SEVEN SEGMENT DISPLAY is off. 2. DISPLAY LED/ SEVEN SEGMENT DISPLAY operates abnormally	1. FREEZER/ REFRIGERATOR.	Check if FREEZER/ REFRIGERATOR DOOR IS OPEN and check display.	POWER SOURCE is poor.	Check outlet Voltage.
		2. If LAMP is dim.	Check visually.	Applied voltage error.	Use boosting TRANS.
		3. The connection of the MAIN PWB CONNECTOR.	Check connection of CONNECTOR.	CONNECTOR connection is poor.	Reconnect CONNECTOR.
				TRANS FUSE is open.	Replace TRANS.
COOLING is poor.	NO COOLING.	1. If the COMPRESSOR operate.	USE TEST MODE1 (forced COOLING). If less than 7 minutes pass after compressor shuts off, don't press the KEY and wait.	COMPRESSOR locked or blocked.	Replace COMPRESSOR.
				OLP, PTC is poor. COMPRESSOR RELAY is poor.	Replace OLP, PTC. Replace MAIN PWB.
				THE CONNECTING WIRE is poor.	Check the connection of the black wire of the MAIN PWB CONNECTOR (CON2).
		2. If refrigerant is leaking.	Measure the amount of frost sticking on EVAPORATOR and the surface temperature of the condenser pipe.	Refrigerant leakage.	Replace the leaking part and replace any lost refrigerant.
	FREEZER TEMPERATURE is incorrect	1. If FAN MOTOR operates.	USE TEST MODE1 (forced COOLING).	FAN MOTOR is poor.	Replace the FAN MOTOR.
				CONNECTING WIRE is poor.	Certify the MOTOR and the connection of the black wire of the MAIN PWB CONNECTOR (CON2).
		2. If DEFROSTING is normal.	Check the amount of frost sticking on the EVAPORATOR .	DEFROSTING is poor.	See **DEFROSTING is poor**.
		3. If SENSOR is normal.	Check the resistance of the Refrigerator SENSOR.	SENSOR RESISTANCE is poor.	Replace SENSOR.
		4. Door Line contact.	Check the seal when the door is closed.	Door liner damaged.	Replace door liner.

PROBLEM	INDICATED BY	CHECK	CHECKING METHOD	CAUSE	SOLUTION
COOLING is poor.	If REFRIGERATOR TEMPERATURE is too low.	1. If FREEZER TEMPERATURE is normal.	Check is FREEZER TEMPERATURE is too low.		Make sure the DOOR isattached.
		2. If amount of cool air from FAN MOTOR is sufficient.	Make sure that the amount and speed of cool air are sufficient by touching the check supplied on the REFRIGERATOR.	FAN MOTOR is poor.	Replace FAN MOTOR.
				Passage of cool air is blocked.	Remove impurities.
				EVA frozen.	See **DEFROSTING is poor**.
		3. Door Line contact.	Check door seal when door is closed.	Door liner damaged.	Replace Door liner.
DEFROSTING is poor.	NO DEFROSTING.	1. If HEATER emits heat.	USE TEST MODE2 (forced DEFROSTING).	HEATER disconnection.	Replace HEATER.
				TEMPERATURE FUSE disconnection.	Replace TEMPERATURE FUSE.
				Connection is poor.	Check EVAPORATOR connection and wire of MAIN PWB CONNECTOR.
				DEFROST-SENSOR is poor.	Replace DEFROST-SENSOR.
				HEATER RELAY is poor.	Replace RY3 of MAIN PWB.
		2. If DRAIN PIPE is blocked.	Check DRAIN PIPE.	DRAIN PIPE is blocked.	Remove ice and impurities.
					Check HEATER PLATE resistance.
		3. If ice remains after DEFROSTING.	Make sure that DEFROST SENSOR is connected.	Connection is poor.	Reassemble the DEFROST-SENSOR.
			Make sure that FREEZER / REFRIGERATOR DOOR is closed.	DOOR does not close properly.	Reassemble DOOR.
					Replace GASKET.

8-5 MAIN PWB ASSEMBLY AND PARTS LIST

8-5-1 Main PWB Assembly

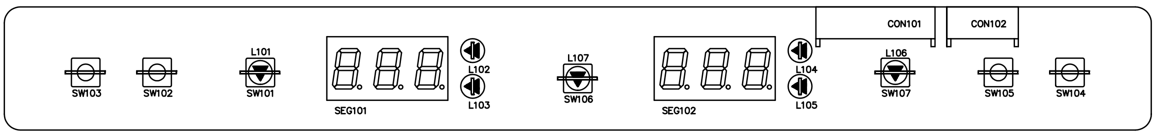


8-5-2 Replacement Parts List

No	P/NO	DESCRIPTION	SPEC	MAKER	REMARK
1	6870JB8087D	PWB(PCB)	KS-PJT BEST	DOO SAN	T:1.6
2	6170JB2012A	TRANSFORMER,SMPS[COIL]	KS-PJT 220-240V	SAM IL	TRANS
3	6170JB2012B	TRANSFORMER,SMPS[COIL]	KS-PJT 100-127V	SAM IL	TRANS
4	6630A09106A	CONNECTOR (CIRC),WAFER	YW396-03AV	YEON HO	CON1
5	6630A09106D	CONNECTOR (CIRC),WAFER	YW396 YEONHO 9P 3.96MM AV	YEON HO	CON2
6	6630A09106B	CONNECTOR (CIRC),WAFER	YW396 YEONHO 5P 3.96MM AV	YEON HO	CON3
7	6630JB8007H	CONNECTOR (CIRC),WAFER	917787-1 AMP 9P 2.5MM STRAIGHT SN	AMP	CON4
8	6630JB8010A	CONNECTOR (CIRC),WAFER	917791-1 AMP 13PIN 2.5MM STRAIGHT SN	AMP	CON5
9	6630JB8007L	CONNECTOR (CIRC),WAFER	917790-1 AMP 12P 2.5MM STRAIGHT SN	AMP	CON6
10	6630JB8007C	CONNECTOR (CIRC),WAFER	917782-1 AMP 4P 2.5MM STRAIGHT SN	AMP	CON7
11	0ISK655100A	IC,SANKEN	STR-6551 5PIN BK SMPS 2,4PIN FORM	SANKEN	IC2
12	0IZZJB20240	IC,DRAWING	TMP87CK40AN 64PIN,SDIP BK KS-PJT[MASK]	TOSHIBA	IC1(:0IZZJB2024R)
13	-	-	-	-	-
14	0IPMGNE001A	IC,TOSHIBA	TLP721F 4P BK PHOTO COUPLER	TOSHIBA	IC3
15	0IKE431000A	IC,KEC	KIA431 3 PIN TP - -	KEC	IC4
16	0IKE780500W	IC,KEC	KIA7805PI - - - -	KEC	IC5
17	0IKE650830B	IC,KEC	KID65083AF 20SOP LED DRIVER	KEC	IC10
18	0IKE650030B	IC,KEC	KID65003AP 16P SDIP BK DRIVE	KEC	IC6
19	0ISTLMI001A	IC,STANDARD LOGIC	M54563FP 20 R/TP CONVERT	MITSUBISH	IC9
20	0IKE704200A	IC,KEC	KIA7042P 3P BK RESET -	KEC	IC7
21	0IT0777400A	IC,TOSHIBA	TA7774AP 16,SDIP BK DRIVE,IC STEPPING M	TOSHIBA	IC11
22	0IRH934600D	IC,ROHM	BR93LC46RF-W 8PIN SOP BK EEPROM -	ROHM	IC8
23	6920000001A	RELAY	ALE15B12 MATSUSHITA 12V 16A 15.6V 1A	NAIS	RY2
24	6920ALZ001A	RELAY	ALZ12B12 NAIS 250VAC 16A 12VDC 1C NO VENTING	NAIS	-
25	6920JB2009B	RELAY	G5SB-14 250VAC 5A 12VDC 1C	OMRON	RY4
26	6920JB2007A	RELAY	VSB-12TB TAKAMISAWA DC12V 60MA 250V 1C	FUJITSU	RY1
27	6920A90002A	RELAY	ALD112 NAIS(THAILAND) 250V- 3A 12V 16.6mA 1A	NAIS	RY3 RY5
28	6212JB8001B	RESONATOR,CERAMIC	CSTS0400MG03 MURATA 4MHZ TP	MURATA	OSC1
29	6102JB8003A	VARISTOR	INR14D271 ILJIN UL/VDE TP 270V	ILJIN	VA1
30	6102JB8001B	VARISTOR	INR14D621 ILJIN UL/VDE BK 620V	ILJIN	VA1
31	0DR107009AA	DIODE,RECTIFIERS	FR107 TP DELTA D041 1000V 1A 3	DELTA	D1,D2,D5,D6
32	0DRSA00070A	DIODE,RECTIFIERS	RL2 SANKEN BK NON 400V 2A 40A 50NSEC 10UA	SANKEN	D3,D4
33	0DB360000AA	DIODE,RECTIFIERS	D3SBA60 BK SHINDENGEN 600V 4A	SHINDENGEN	BD1
34	6102W5V006A	VARISTOR	INR14D331K ILJIN UL/CSA/VDE BK	ILJIN	VA1
35	0CE476ZV6E0	CAPACITOR,FIXED ELECTROLYTIC	47UF HE 450V 20% BULK SNAP IN(105°)	SAM WHA	CE1
36	0CE476BK638	CAPACITOR,FIXED ELECTROLYTIC	47UF KME TYPE 50V 20% FM5 TP 5 (105°)	SAM WHA	CE2
37	0CE1076H638	CAPACITOR,FIXED ELECTROLYTIC	100UF SMS,SG 25V 20% FM5 TP 5	SAM WHA	CE12
38	0CE687YH6E0	CAPACITOR,FIXED ELECTROLYTIC	680UF RX 25V 20% BULK SNAP IN(105°)	SAM WHA	CE3
39	0CE687YJ618	CAPACITOR,FIXED ELECTROLYTIC	680UF RX 35V 0.2 TP 5 FL(105°)	SAM WHA	CE4
40	0CE227BF638	CAPACITOR,FIXED ELECTROLYTIC	220UF KME TYPE 16V 20% FM5 TP 5(105°)	SAM WHA	CE5
41	0CE227BH638	CAPACITOR,FIXED ELECTROLYTIC	220UF RG TYPE 25V 20% FM5 TP 5(105°)	SAM WHA	CE11
42	0CE105BK638	CAPACITOR,FIXED ELECTROLYTIC	1UF KME TYPE 50V 20% FM5 TP 5(105°)	SAM WHA	CE10
43	0CE476BH638	CAPACITOR,FIXED ELECTROLYTIC	47UF KME TYPE 25V 20% FM5 TP 5(105°)	SAM WHA	CE6
44	0CE106EK638	CAPACITOR,FIXED ELECTROLYTIC	10UF KMG 50V 20% FM5 TP 5(105°)	SAM WHA	CE7-CE9
45	0CH1471K562	CAPACITOR,FIXED CERAMIC(HIGH DIELECTRIC)	470PF 50V K X7R(X) 1608 R/TP	MURATA	CC1
46	0CK2210RG1A	CAPACITOR,FIXED CERAMIC(HIGH DIELECTRIC)	250PF D 250V 10% -10% B(Y5P) R/TP	SAM WHA	CC2
47	0CK104DK94A	CAPACITOR,FIXED CERAMIC(HIGH DIELECTRIC)	100NF 2012 50V R/TP (GRM40X7R104K50PE)	MURATA	CC3-CC7 CC8
48	0CK1020K519	CAPACITOR,FIXED CERAMIC(HIGH DIELECTRIC)	1000PF 50V K B TA52	MURATA	CC17
49	0CK223DK96A	CAPACITOR,FIXED CERAMIC(HIGH DIELECTRIC)	22NF 2012 50V 80%,-20% R/TP X7R	MURATA	CC16,CC18,CC19
50	0CK2230K949	CAPACITOR,FIXED CERAMIC(HIGH DIELECTRIC)	22NF 50V Z F TA52	MURATA	CC12-CC15
51	0CK102DK96A	CAPACITOR,FIXED CERAMIC(HIGH DIELECTRIC)	1NF 2012 50V 80%,-20% R/TP X7R	MURATA	CC10 CC11
52	0C04741B670	CAPACITOR,FIXED FILM	0.47UF D 275V M M/PP NI R	PILKOR	CM1, CM2
53	0CF22408670	CAPACITOR,FIXED FILM	220NF 0 275V 20% BULK M/PP NI	PILKOR	
54	0C04732Y430	CAPACITOR,FIXED FILM	47000PF S 630V J M/PE NI R	SAM WHA	CM3
55	0C0224IN630	CAPACITOR,FIXED FILM	0.22UF D 100V M M/PE NI R	SAM WHA	CM4
56	0C0223IN409	CAPACITOR,POLYESTER	0.022UF D 100V J PE TP	SAM WHA	CM5
57	0RJ2200H672	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1/2 W 5% 2012 R/TP	SMART,CHOHYANG	R29
58	0RS1503J609	RESISTOR,FIXED METAL OXIDE FILM	150K OHM 1W 5.00% TA52	SMART,CHOHYANG	R1
59	0RS8202609	RESISTOR,FIXED METAL OXIDE FILM	82K OHM 1W 5.00% TA52	SMART,CHOHYANG	R1
60	0RS0101J609	RESISTOR,FIXED METAL OXIDE FILM	1 OHM 1 W 5.00% TA52	SMART,CHOHYANG	ROCP
61	0RS0470J609	RESISTOR,FIXED METAL OXIDE FILM	0.47 OHM 1 W 5% TA52	SMART,CHOHYANG	ROCP
62	0RS5602K641	RESISTOR,FIXED METAL OXIDE FILM	56K OHM 2 W 5.00% TA52	SMART,CHOHYANG	R3
63	0RJ8200H672	RESISTOR,METAL GLAZED(CHIP)	820 OHM 1/2 W 5% 2012 R/TP	SMART,CHOHYANG	R19-R26
64	0RD5603H609	RESISTOR,FIXED CARBON FILM	560K OHM 1/2 W 5.00% TA52	SMART,CHOHYANG	R2
65	0RD1501H609	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/2 W 5.00% TA52	SMART,CHOHYANG	R48
66	0RD1000G609	RESISTOR,FIXED CARBON FILM	100 OHM 1/4 W 5.00% TA52	SMART,CHOHYANG	R32 R35
67	0RH2200L622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1/8 W 2012 5.00% D	ROHM	R10
68	0RH4701L622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1/8 W 2012 5.00% D	ROHM	R12,R44,R31,R18 R34
69	0RH1002L622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1/8 W 2012 5.00% D	ROHM	R46
70	0RJ0332E672	RESISTOR,FIXED CARBON FILM	33 OHM 1/8 W 5% 2012 R/TP	ROHM	R5
71	0RD1001G609	RESISTOR,FIXED CARBON FILM	1K OHM 1/4 W 5.00% TA52	SMART,CHOHYANG	R9
72	0RH1001L622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1/8 W 2012 5.00% D	ROHM	R8
73	0RH2001L622	RESISTOR,METAL GLAZED(CHIP)	2K OHM 1/8 W 2012 5.00% D	ROHM	R55,R64, R36-R39 R65
74	0RD2001G609	RESISTOR,FIXED CARBON FILM	2K OHM 1/4 W 5.00% TA52	SMART,CHOHYANG	R40,R49,R51,R52,R56
75	0RH3300L622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1/8 W 2012 5.00% D	ROHM	R47
76	0RH1004L622	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1/8 W 2012 5.00% D	ROHM	R11
77	0RN1622G409	RESISTOR,FIXED CARBON FILM	16.2K OHM 1/4 W 1.00% TA52	SMART,CHOHYANG	RF1
78	0RN2612G409	RESISTOR,FIXED CARBON FILM	26.1K OHM 1/4 W 1.00% TA52	SMART,CHOHYANG	RD1,RR1
79	0RD3901G609	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/4 W 5.00% TA52	SMART,CHOHYANG	R45
80	0RD4701G609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/4 W 5.00% TA52	SMART,CHOHYANG	R4,R30,R33,R50,R57-R62,R66 R13-R16,R53
81	0RJ6800E672	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1/8 W 5% 2012 R/TP	ROHM	R6
82	0RD1002G609	RESISTOR,FIXED CARBON FILM	10K OHM 1/4 W 5.00% TA52	SMART,CHOHYANG	R17,RCR1,R41-R43
83	0RH1801L622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1/8 W 2012 5.00% D	ROHM	R7
84	0RD2702G609	RESISTOR,FIXED CARBON FILM	27K OHM 1/4 W 5.00% TA52	SMART,CHOHYANG	-
85	0RD4702G609	RESISTOR,FIXED CARBON FILM	47K OHM 1/4 W 5.00% TA52	SMART,CHOHYANG	-
86	0RJ9101E472	RESISTOR,FIXED METAL FILM	9.1K OHM 1/8 W 1% 2012 R/TP	ROHM	RL1
87	0RJ2401E472	RESISTOR,FIXED METAL FILM	2.4K OHM 1/8 W 1% 2012 R/TP	ROHM	RL2
88	0RJ2700E672	RESISTOR,METAL GLAZED(CHIP)	270 OHM 1/8 W 2012 5.00% D	ROHM	R54
89	0TRKE00008A	TRANSISTOR,BIPOLAR	KEC K1B1151 BK 10126 60V 5A	KEC	Q5
90	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	KEC	Q3,Q6 Q4
91	0TRKE80016A	TRANSISTOR,BIPOLAR	KEC KRC106S R/TP SOT23 50V 100MA	KEC	Q1
92	0TR106009AC	TRANSISTOR,BIPOLAR	KRA 106M KEC	KEC	Q7
93	-	TRANSISTOR,BIPOLAR	KTC3875 KEC	KEC	-
94	6210JB8001A	FILTER(CIRC),EMC	BFS3510A0 SAMWHA 52 -	SAM WHA	FB1
95	6600RRT001Z	SWITCH,TACT	JTP1280A6 JEIL 12V DC 50MA	JEIL	SW1
96	6854B50001A	JUMP WIRE	0.6MM 52MM TP TAPING SN(10MM)	DAE A LEAD	J01-J04,J06-J13,J14, JP01
97	6854B50001A	JUMP WIRE	0.6MM 52MM TP TAPING SN(12.5MM)	DAE A LEAD	J05
98	6854B50001A	JUMP WIRE	0.6MM 52MM TP TAPING SN(10MM)	DAE A LEAD	OP1
99	6854B50001A	JUMP WIRE	0.6MM 52MM TP TAPING SN(10MM)	DAE A LEAD	OP2,OP3,R13-R16
100	6200JB8004A	FILTER(CIRC),EMC	CV940050 TNC BK	TNC	L1
101	6200JB8007X	FILTER(CIRC),EMC	UV11-05320 TNC BK 0.5A 32MH	TNC	L2
102	0LR1001M4F0	INDUCTOR,RADIAL LEAD	1000UH 20% R 6X12.5 BULK	TNC	L3
103	0FM9001B621	FUSE,FAST BLOW	9000MA 250V 6.3X31.8 CY/GL KS	SAM JU	FUSE1
104	6901JB8001A	FUSE ASSEMBLY	KORE-PJT N/S	SAM JU	FUSE HOLDER
105	0FZZJB3001A	FUSE,DRAWING	2A 250V SLOW-BLOW LITTLE FUSE,TRIAD	SAM JU	FUSE1
106	6908JB3002F	BUZZER	CBE2220BP DAE YOUNG PIEZO 2KHZ 75DB(CHINA)	DAE YOUNG	BUZZER
107	4920JB3007A	HEAT SINK	23.3*17*25 DRIVE IC STR		(IC2)
108	1SBF0302418	SCREW TAP TITE(S),BINDING HE	+D3.0 L8.0 MSWR3/FZY	행성사	(IC2)
109	9VWF0120000	SOLDER(ROSIN WIRE) RS0	D1.20	-	-
110	49111004	SOLDER,SOLDERING	H63A	HISUNG	-
111	59333105	FLUX	SG;0.825-0.830 KOREA F.H-206	KOKI	-
112	0C0103IN509	CAPACITOR,FIXED FILM	0.01UF D 100V 10% PE TP5	SAM WHA	CM4

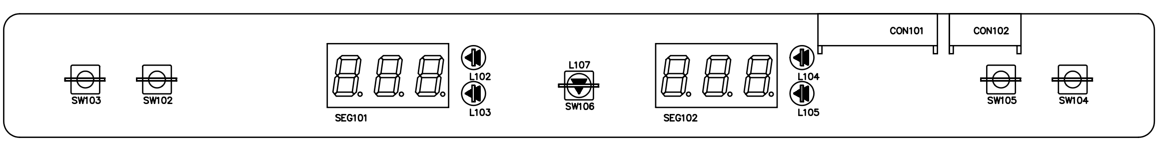
8-5-3 PWB Assembly, Display, And Parts List

Dispenser Model



No	P/NO	DESCRIPTION	SPEC	MAKER	REMARK
1	6870JB8090A	PWB(PCB)	KS-PJT DISPENSER DISPLAY	DOO SAN	-
2	-	-	-		-
3	6630JB8005D	WAFER	SMAW250-11	YEON HO	CON101
4	6630JB8004U		SMAW250-06		CON102
5	6600JB8005A	SWITCH,TACT	KPT-1105A	KYUNG IN	SW102~105
6	6600RRT002K		JTP1230A JEIL 12V DC 50MA	JEIL	
7	6600JB8004A	TACT S/W	KPT-1109R	KYUNG IN	SW101,SW107
8	-	TACT S/W	KPT-1109G	KYUNG IN	SW106
9	6327JB8001A	DISPLAY LED ASSEMBLY	LN4023-13EWRS GREEN 2.1V 1.7MCD	LEDTECH	SEG1,SEG2
10	0DLLE0059AA	LED	LT8323-41-BCN 2.1V D3 TP GREEN		L102~105
11	0DD414809AA	DIODE,SWITCHING	1N4148 26MM	PYUNG CHANG	D107~113
12	0DD400400A		1N4004	DELTA	D101~106
13	6854B50001A	JUMP WIRE	0.6MM 52MM TP TAPING SN(10MM)	-	J01~06,J08~13
14	9VWF0120000	SOLDER(ROSIN WIRE) RS0	D1.20	HEE SUNG	-
15	49111004	SOLDER,SOLDERING	H63A	-	-
16	59333105	FLUX	SG;0.825-0.830 KOREA F.H-206	KOKI	-

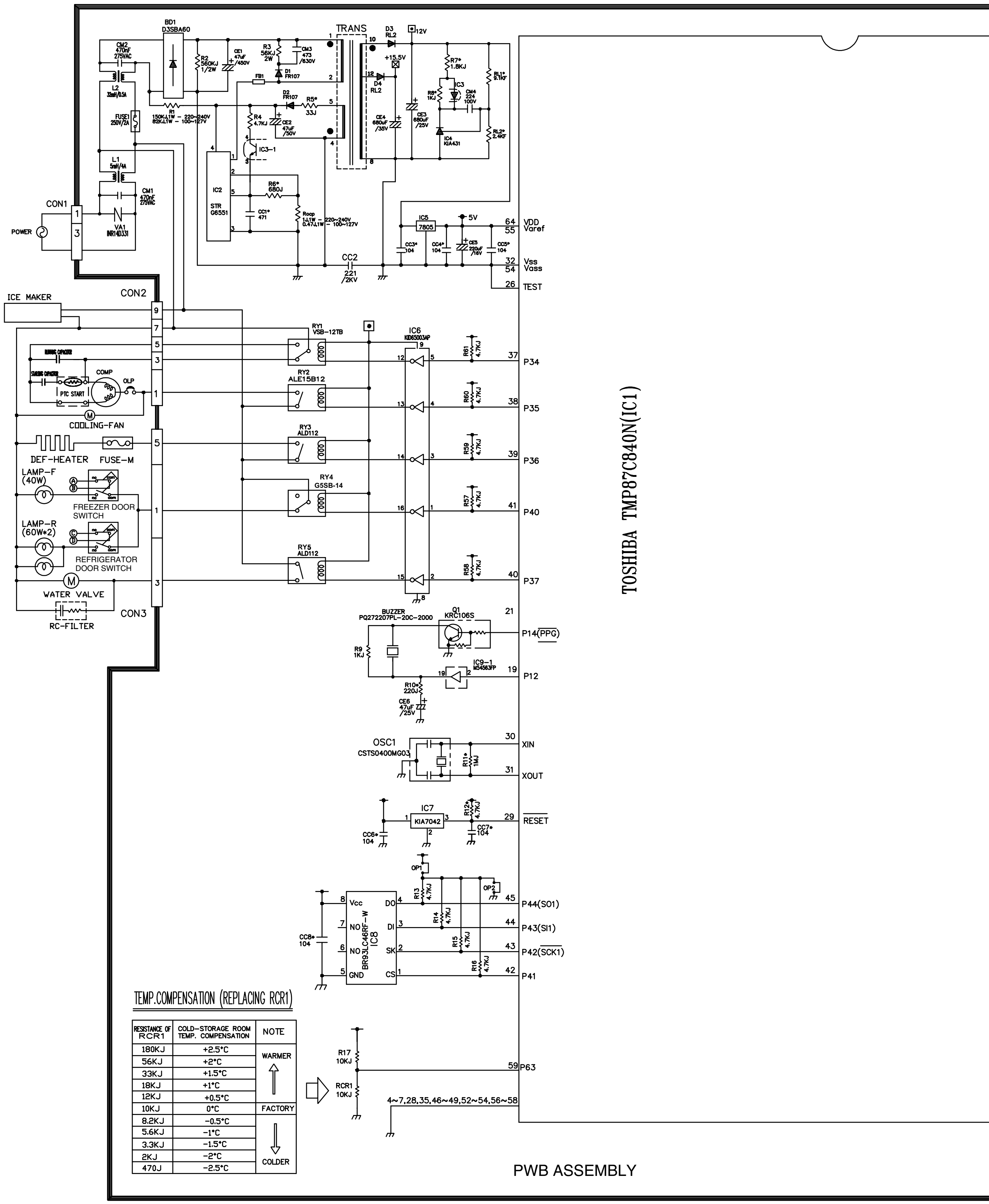
Best Model



No	P/NO	DESCRIPTION	SPEC	MAKER	REMARK
1	6870JB8090A	PWB(PCB)	KS-PJT DISPENSER DISPLAY	DOO SAN	-
2	-	-	-		-
3	6630JB8005D	WAFER	SMAW250-11	YEON HO	CON101
4	6630JB8004U		SMAW250-06		CON102
5	6600JB8005A	SWITCH,TACT	KPT-1105A	KYUNG IN	SW102~105
6	6600RRT002K		JTP1230A JEIL 12V DC 50MA	JEIL	
7	6600JB8004A	TACT S/W	KPT-1109R	KYUNG IN	SW106
8	-	TACT S/W	KPT-1109G	KYUNG IN	
9	6327JB8001A	DISPLAY LED ASSEMBLY	LN4023-13EWRS GREEN 2.1V 1.7MCD	LEDTECH	SEG1,SEG2
10	0DLLE0059AA	LED	LT8323-41-BCN 2.1V D3 TP GREEN		L102~105
11	0DD414809AA	DIODE,SWITCHING	1N4148 26MM	PYUNG CHANG	D107~113
12	0DD400400A		1N4004	DELTA	D101~106
13	6854B50001A	JUMP WIRE	0.6MM 52MM TP TAPING SN(10MM)	-	J01~06,J08~13
14	9VWF0120000	SOLDER(ROSIN WIRE) RS0	D1.20	HEE SUNG	-
15	49111004	SOLDER,SOLDERING	H63A	-	-
16	59333105	FLUX	SG;0.825-0.830 KOREA F.H-206	KOKI	-

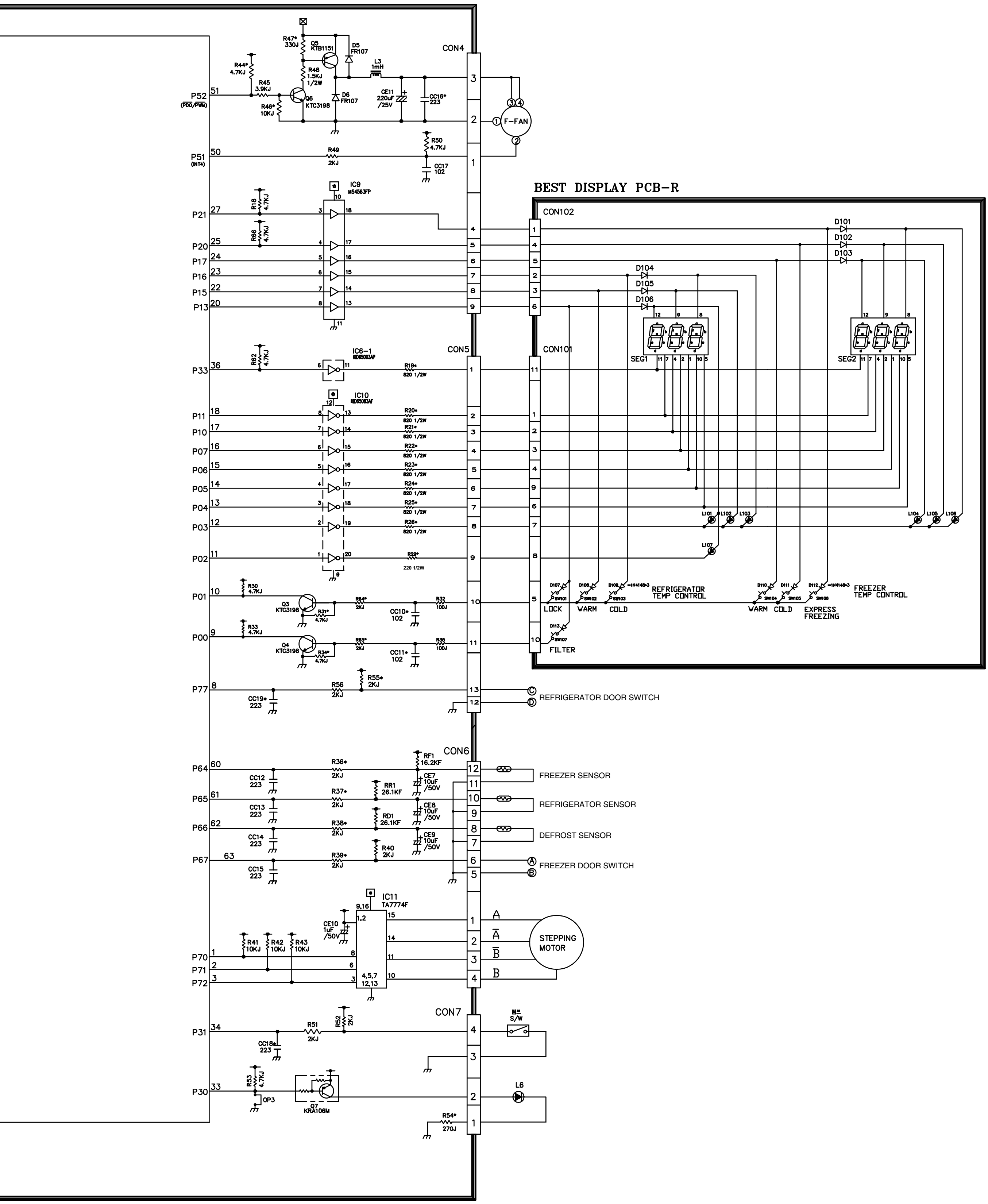
8-6 PWB DIAGRAM

8-6-1 PWB Main Assembly



TEMP.COMPENSATION (REPLACING RCR1)

RESISTANCE OF RCR1	COLD-STORAGE ROOM TEMP. COMPENSATION	NOTE
180KJ	+2.5°C	WARMER ↑
56KJ	+2°C	
33KJ	+1.5°C	
18KJ	+1°C	
12KJ	+0.5°C	
10KJ	0°C	FACTORY
8.2KJ	-0.5°C	↓ COLDER
5.6KJ	-1°C	
3.3KJ	-1.5°C	
2KJ	-2°C	
470J	-2.5°C	



CON4
F-FAN
BEST DISPLAY PCB-R
CON102
CON101
CON5
CON6
CON7
SEG1
SEG2
REFRIGERATOR TEMP CONTROL
FREEZER TEMP CONTROL
LOCK
WARM
COLD
EXPRESS FREEZING
FILTER
REFRIGERATOR DOOR SWITCH
FREEZER SENSOR
REFRIGERATOR SENSOR
DEFROST SENSOR
FREEZER DOOR SWITCH
STEPPING MOTOR
IC9
IC10
IC11 TA7774F

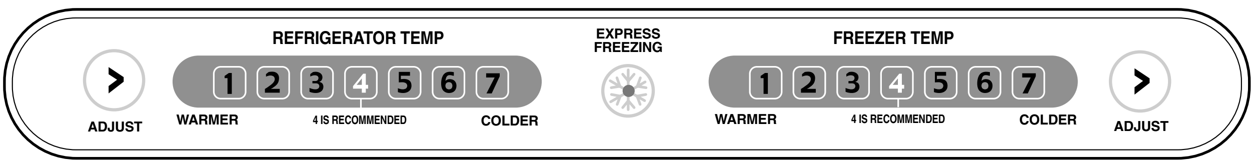
9. DESCRIPTION OF FUNCTION & CIRCUIT OF MICOM

9-1 FUNCTION

9-1-1 Function

1. When the appliance is plugged in, it is set to "4" for Refrigerator and "4" for freezer.
   You can adjust the Refrigerator and the Freezer control temperature by pressing the ADJUST button.
2. When the power is initially applied or restored after a power failure, it is automatically set to "4" & "4".

BETTER / GOOD MODEL



9-1-2 Control of freezer fan motor

1. Freezer fan motor has high and standard RPMs.
2. High RPM is used when electricity is first on, for express freezing, and when refrigerator is overloaded.
   But standard RPM is used for general purposes.
3. To improve cooling speed and load corresponding speed, the RPM of freezer fan motor shall change from normal speed to hign speed.
4. High speed (2500RPM) : Initial power on or load corresponding operation, express freezing Normal speed (2200RPM) : General working conditions.
5. Fan motor stops when refrigerator of freezer door opens.

9-1-3 EXPRESS FREEZING

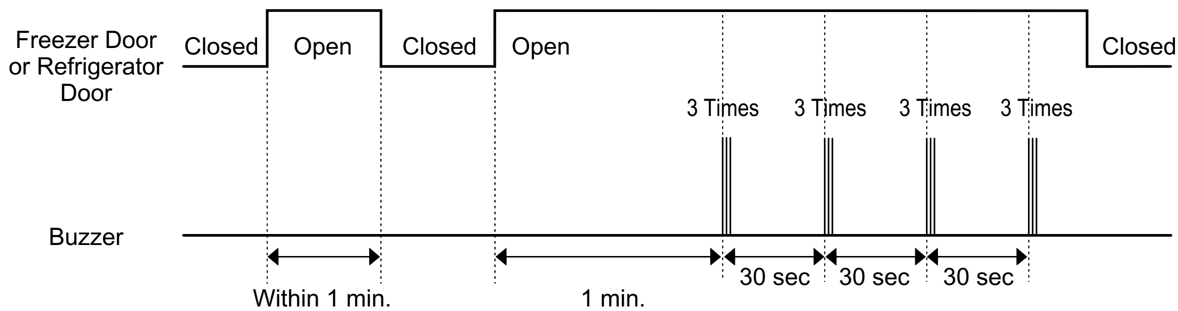
1. The purpose of this function is to intensify the cooling speed of freezer and to increase the amount of ice.
2. Whenever selection switch is pressed, selection/release, the LED will turn ON or OFF.
3. If there is a power cut and the refrigerator is power on again, EXPRESS FREEZING function will be canceled.
4. To activate these function you need to press the Express Freezing key and the LED will turn ON. This function will remain activated for 24 hrs. The first three hours the compressor and Freezer Fan will be ON. The next 21hours the freezer will be controlled at the lowest temperature. After 24 hours or if the Express Freezing key is pressed again, the freezer will return to its previous temperature.
5. For the first three hours notice the following cases:
   (1) Compressor and freezer fan(HIGH RPM) continuously operate for three hours.
   (2) If defrost starts during EXPRESS FREEZING, EXPRESS FREZZING operates for the rest of time after defrost is completed, when EXPRESS FREZZING operation time is less than 90 minutes.
   If EXPRESS FREZZING operates for more than 90minutes, the EXPRESS FREZZING will operate for two hours after defrost is completed.
   (3) If EXPRESS FREZZING is pressed during defrost, EXPRESS FREZZING LED is on but this function will start seven minutes after defrost is completed and it shall operate for three hours.
   (4) If EXPRESS FREZZING is selected within seven minutes after compressor has stopped, the compressor (compressor delays seven minutes) shall start after the balance of the delay time.
   (5) The fan motor in the freezer compartment rotates at high speed during EXPRESS FREZZING.
6. For the rest of 21 hours, the freezer will be controlled at the lowest temperature.

9-1-4. REFRIGERATOR LAMP AUTO OFF

1. To protect the risk of lamp heat, when Refrigerator door opens for 7 min., refrigerator lamp is auto off.

9-1-5 Alarm for Open Door

1. This feature sounds a buzzer when the freezer or refrigerator door is not closed within 1 minute after it is opened.
2. One minute after the door is opened, the buzzer sounds three times each for 1/2 seconds. These tones repeat every 30 seconds.
3. The alarm is cancelled when the freezer or the refrigerator is closed while the buzzer sounds.



9-1-6 Buzzer Sound

When the button on the front Display is pushed, a Ding~ Dong~ sound is produced.
(Refer to the Buzzer Circuit 7-2-4 No. 2)

9-1-7 Defrosting (removing frost)

1. Defrosting starts each time the COMPRESSOR running time reaches 7 hours.
2. For initial power on or for restoring power, defrosting starts when the compressor running time reaches 4 hours.
3. Defrosting stops if the sensor temperature reaches 46.4°F(8°C) or more. If the sensor doesn't reach 46.4°F(8°C) in 2 hours, the defrost mode is malfunctioning. (Refer to the defect diagnosis function, 7-1-9.)
4. Defrosting won't function if its sensor is defective (wires are cut or short circuited)

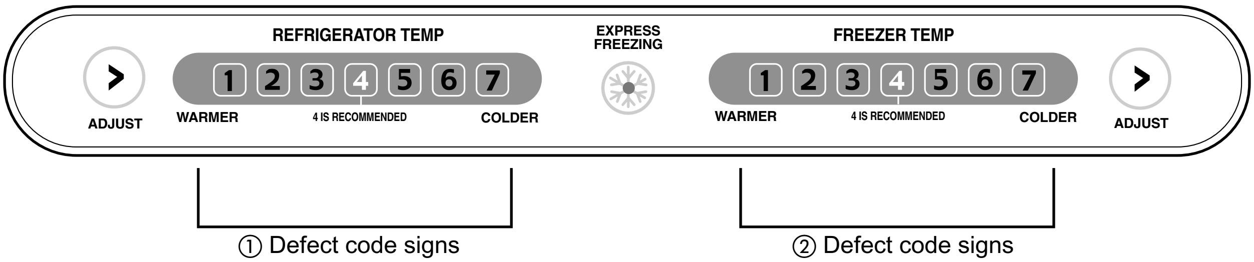
9-1-8 Electrical Parts Are Turned On Sequentially

Electrical parts such as COMP, defrosting heater, freezer FAN, etc. are turned on in the following order to prevent noise and parts damage. Several parts are started at the same time at initial power on and are turned off together when TEST is completed.

OPERATING		ORDERS
Initial power on	Temperature of Defrosting Sensor is 45°C or more (when unit is newly purchased or when moved)	**POWER ON** → in 1/2 second → **COMP ON** → in 1/2 second → **Freezer FAN ON**
Initial power on	Temperature of defrosting sensor is lower than 45°C (when power cuts, SERVICE)	**POWER ON** → in 1/2 second → **Defrosting heater ON** → in 10 second → **Defrosting heater OFF** → in 1/2 second → **COMP ON** → in 1/2 second → **Freezer FAN ON**
Reset to normal operation from TEST MODE		**Total load OFF** → in 7 minute → **COMP ON** → in 1/2 second → **Freezer FAN ON**

9-1-9 Defect Diagnosis Function

1. Automatic diagnosis makes servicing the refrigerator easy.
2. When a defect occurs, the buttons will not operate; but the tones. such as ding. will sound.
3. When the defect CODE removes the sign, it returns to normal operation (RESET).
4. The defect CODE shows on the Refrigerator and Freezer Display.



ERROR CODE on display panel ● LED OFF ◎ LED ON

NO	ITEM	ERROR CODE ①	ERROR CODE ②	CONTENTS	REMARKS
1	Failure of freezer sensor	All off	● ◎ ◎ ◎ ◎ ◎ ◎	Cut or short circuit wire	Inspect Connecting wires on each sensor
2	Failure of Refrigerator sensor	All off	◎ ● ◎ ◎ ◎ ◎ ◎	Cut or short circuit wire	
3	Failure of defrost sensor	All off	◎ ◎ ● ◎ ◎ ◎ ◎	Cut or short circuit wire	
4	Poor of defrost	All off	● ● ● ● ◎ ◎ ◎	2hours later After starting defrost, If sensor doesn't be over 46°F (8°C)	Snapping of defrost heater or Temperature fuse, pull-out of Connector (indicated minimum 2 Hours after failure occurs)

9-1-10 TEST Mode

1. The Test mode allows checking the PCB and the function of the product as well as finding out the defective part in case of an error.
2. The test mode is operated by pressing two buttons at Display panel.
3. While in the test mode, the function control button is not recognized, but the recognition tone (beep~) sounds.
4. After exiting the test mode, be sure to reset by unplugging and then plugging in the appliance.
5. If an error, such as a sensor failure, is detected while in the test mode, the test mode is cleared and the error code is displayed.
6. While an error code is displayed, the test mode will not be activated.

MODE	MANIPULATION	CONTENTS	REMARKS
TEST1	Push Express Freezing key and COLDER KEY of Freezer Temp. at the same time over 3 seconds.	1. Continuous operation of the COMPRESSOR 2. Continuous operation of the freezer fan 3. STEPPING DAMPER OPEN 4. Defrosting Heater OFF 5. Every DISPLAY LED ON	
TEST2	Push Express Freezing key and COLDER KEY of Freezer Temp. at the same time over 3 seconds in TEST MODE 1	1. COMP OFF 2. Freezer FAN OFF 3. STEPPING DAMPER CLOSE 4. Defrosting heater ON 5. DISPLAY LED 1, 3, 5, 7 ON	Reset if the temperature of the Defrosting sensor is 46°F (8°C) or more.
Reset	Push Express Freezing key and COLDER KEY of Freezer Temp. at the same time over 3 seconds. in TEST MODE 2	Reset to the previously setting before TEST MODE	The compressor will Start after a 7-minute delay.

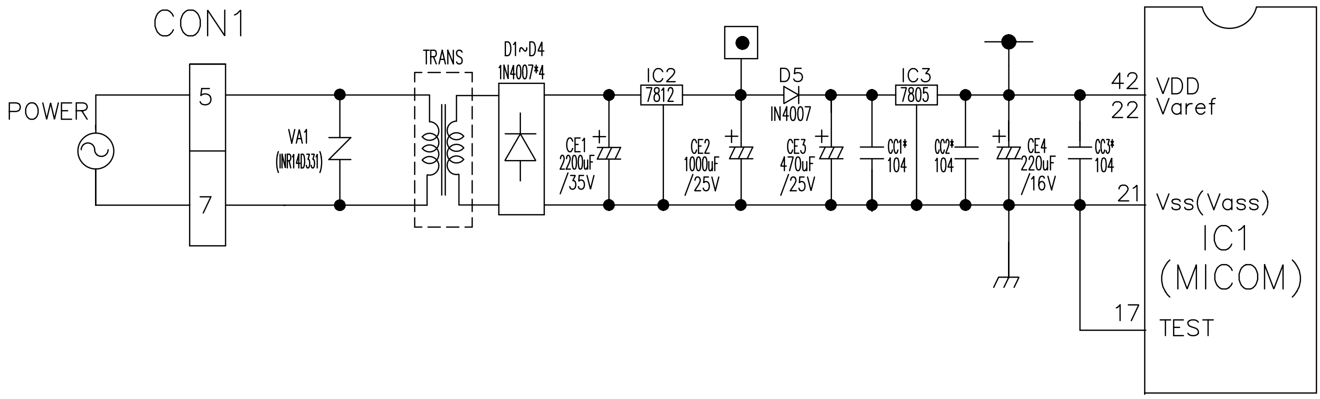
NOTE : LED CHECK MODE: When the refrigerator temperature control and the freezer temperature control button at the same time are hold for 1 second or longer, every LED on the display turns on at the same time. when the button are relesed, the previous mode is restored.

* Freezer Fan RPM Variable Check:
In case the freezer fan is in operation when the WARMER KEY in Refrigerator and Freezer Temp. Control are pressed for more than one second at the same time freezer fan RPM changes. (for example if high speed, to normal speed or if normal speed, to high speed for 30 seconds)
After 30 seconds, it turns to its original RPM.

* Demonstration MODE:
1. When the KEY of refrigerator Temp. control or of freezer Temp. control is pushed and held over 5 seconds, warmest temperature's It converts to Demonstration Mode.
2. In this status, each LED is rotated with 1 second interval.
3. In this status, all Loads are off (Compressor / Fan / Damper / Heater)
(Even is Demonstration Mode, the refrigerator Lamp automatic off function warks normally and can be demonstrated)
4. It reset if you do again as clause.

9-2 PCB FUNCTION

9-2-1 Power Circuit



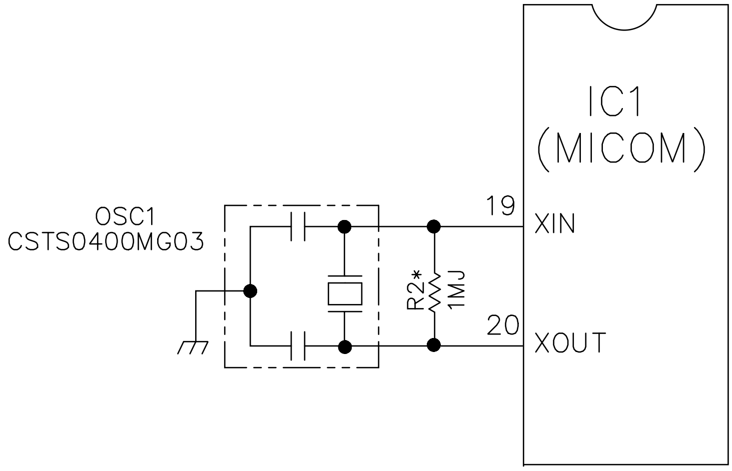
The secondary part of the TRANSFORMER is composed of the power supply for the display, the BLDC FAN Motor drive (15.5 V), the relay drive (12 Vdc) and the MICOM and IC (5 Vdc).

The voltage for each part is as follows:

PART	VA 1	CE 2	CE 1	CE 4
VOLTAGE	115 Vac	12 Vdc	15.5 Vdc	5 V

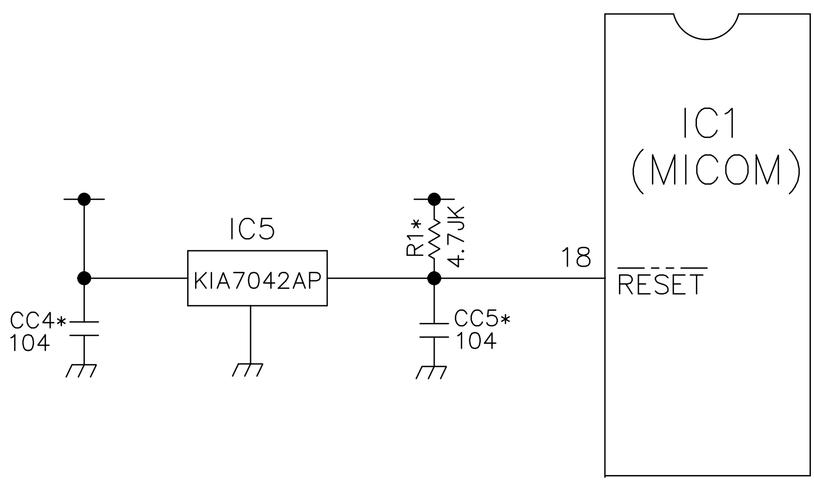
VA1 is a part for preventing over voltage and noise. When 385V or higher power is applied, the inside elements are short-circuited and broken, resulting in blowout of the fuse in order to protect the elements of the secondary part of the TRANSFORMER.

9-2-2 Oscillation Circuit



This circuit generates the base clock for calculating time and the synchro clock for transmitting data from and to the inside logic elements of the IC1 (MICOM). Be sure to use specific replacement parts, since calculating time by the IC1 may be changed. If changed, the OSC1 SPEC will not work.

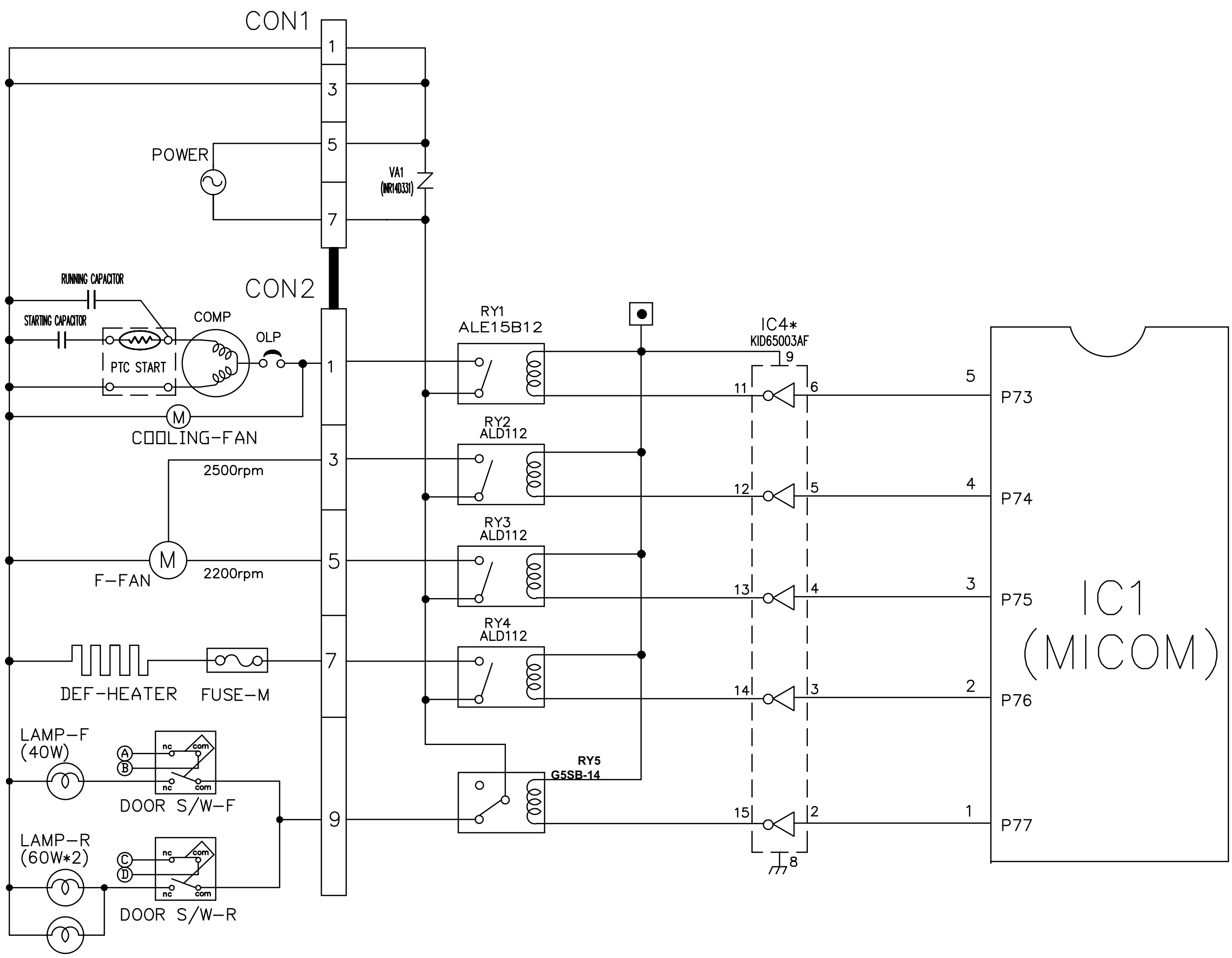
9-2-3 Reset Circuit



The RESET circuit allows all the functions to start at the initial conditions by initializing various parts, including the RAM inside the MICOM (IC1) when the power is initially supplied or the power supply to the MICOM is restored after a momentary power failure. For the initial 10ms of power supply, LOW voltage is applied to the MICOM RESET terminal. During a normal operation, 5V is applied to the RESET terminal. (If a malfunction occurs in the RESET IC, the MICOM will not operate.)

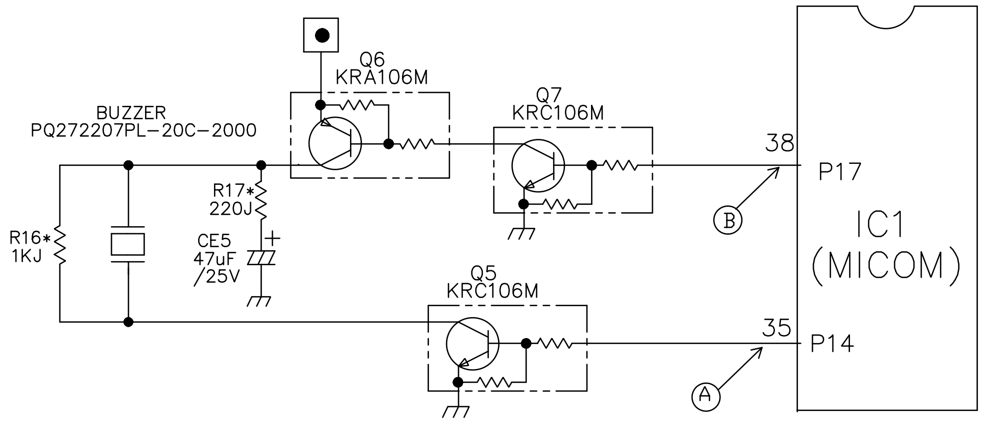
9-2-4 Load / Buzzer Drive & Open Door Detection Circuit

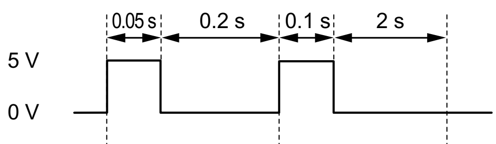
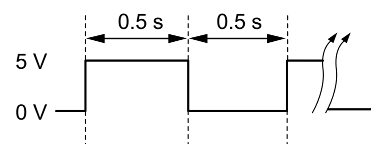
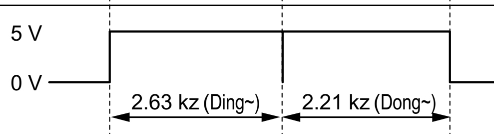
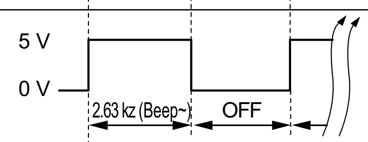
1. Load Drive Condition Check



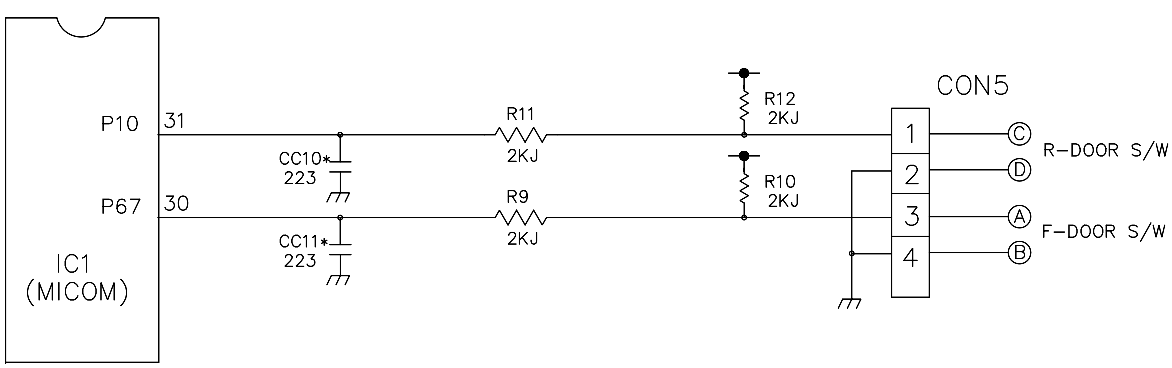
LOAD TYPE		COMP	DEFROSTING HEATER	LAMP	FREEZER FAN MOTOR (HIG RPM)	FREEZER FAN MOTOR (LOW RPM)
Measurement Location (IC4)		NO.11	NO.14	NO.15	NO.12	NO.13
Condition	ON	1V or below				
	OFF	12V				

2. Buzzer Drive Condition Check



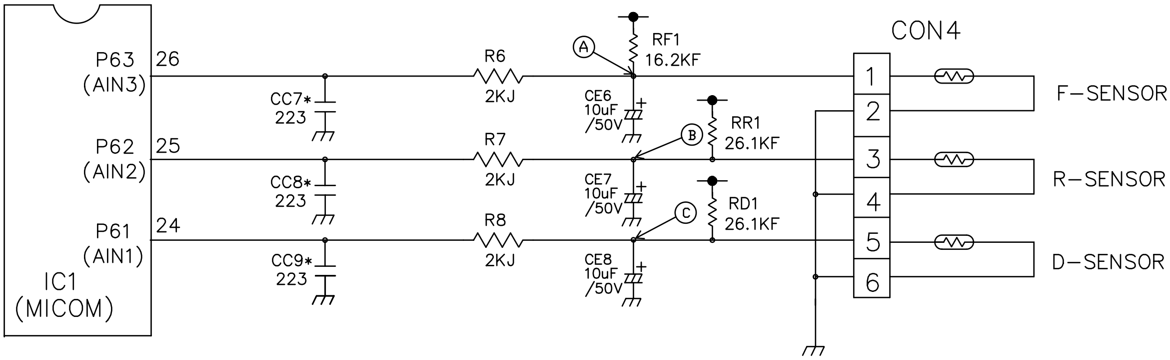
Condition / Measure-ment Location	Tone (Ding~Dong~) when the button on the display is pushed.	Alarm for open door (beep-beep-beep)	OFF
IC1 (Ⓐ)	 0.05 s, 0.2 s, 0.1 s, 2 s; 5 V, 0 V	 0.5 s, 0.5 s; 5 V, 0 V	0 V
IC1 (Ⓑ)	 5 V, 0 V; 2.63 kz (Ding~), 2.21 kz (Dong~)	 5 V, 0 V; 2.63 kz (Beep~), OFF	0 V

3. Open Door Detection Circuit Check



Freezer/ Refrigerator Door / Measurement Location	(PIN NO.31 & PIN NO.30)
Closed	5 V
Open	0 V

9-2-5 Temperature Sensor Circuit

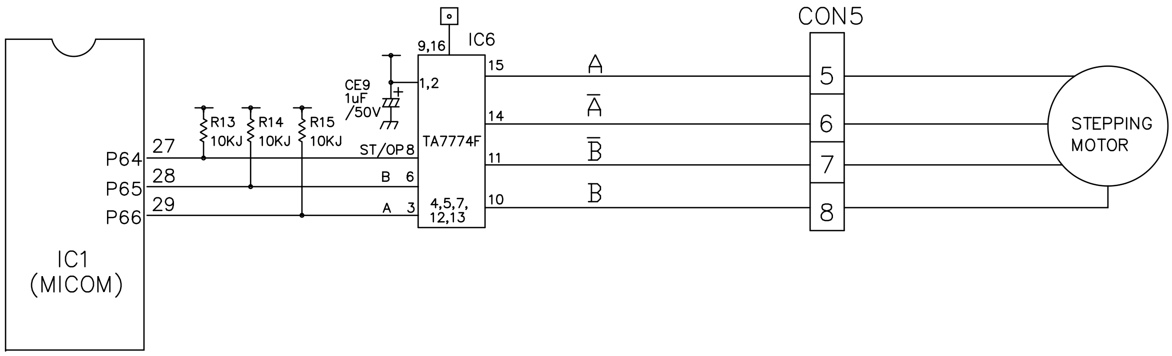


The upper CIRCUIT reads REFRIGERATOR temperature, FREEZER Temperature, and DEFROST-SENSOR temperature for defrosting and the indoor temperature for compensating for the surrounding temperature into MICOM.
OPENING or SHORT state of each TEMPERATURE SENSOR are as follows:

SENSOR	CHECK POINT	NORMAL (-30°C ~ 50°C)	SHORT-CIRCUITED	OPEN
Freezer Sensor	POINT Ⓐ Voltage	0.5 V ~ 4.5 V	0 V	5 V
Refrigerator Sensor	POINT Ⓑ Voltage			
Defrosting Sensor	POINT Ⓒ Voltage			

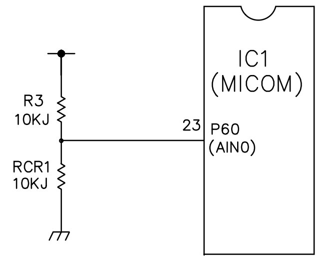
9-2-6 Refrigeration Compartment Stepping Motor Damper Circuit

* The circuit shown below is the damper circuit to regulate the refrigerator temperature.



9-2-7 Temperature Compensation & Overcooling/Undercooling Compensation Circuit

1. Refrigerator Temperature Compensation



Refrigerator		Remark
Resistance (RCR)	**Temperature Compensation**	
180 KΩ	+2.5°C	Compensation by raising the temperature ↑
56 KΩ	+2.0°C	
33 KΩ	+1.5°C	
18 KΩ	+1.0°C	
12 KΩ	+0.5°C	
10 KΩ	0 °C	Standard Temperature
8.2 KΩ	-0.5°C	Compensation by lowering the temperature ↓
5.6 KΩ	-1.0°C	
3.3 KΩ	-1.5°C	
2 KΩ	-2.0°C	
470 Ω	-2.5°C	

➧ Table of Temperature Compensation by adjusting the resistance (difference from the current temperature) e.g., If the refrigerator compensation resistance (RCR) is changed from 10K (the current resistance) to 18K (the adjustment resistance), the temperature of the refrigerator rises 33.8°F(+1°C).

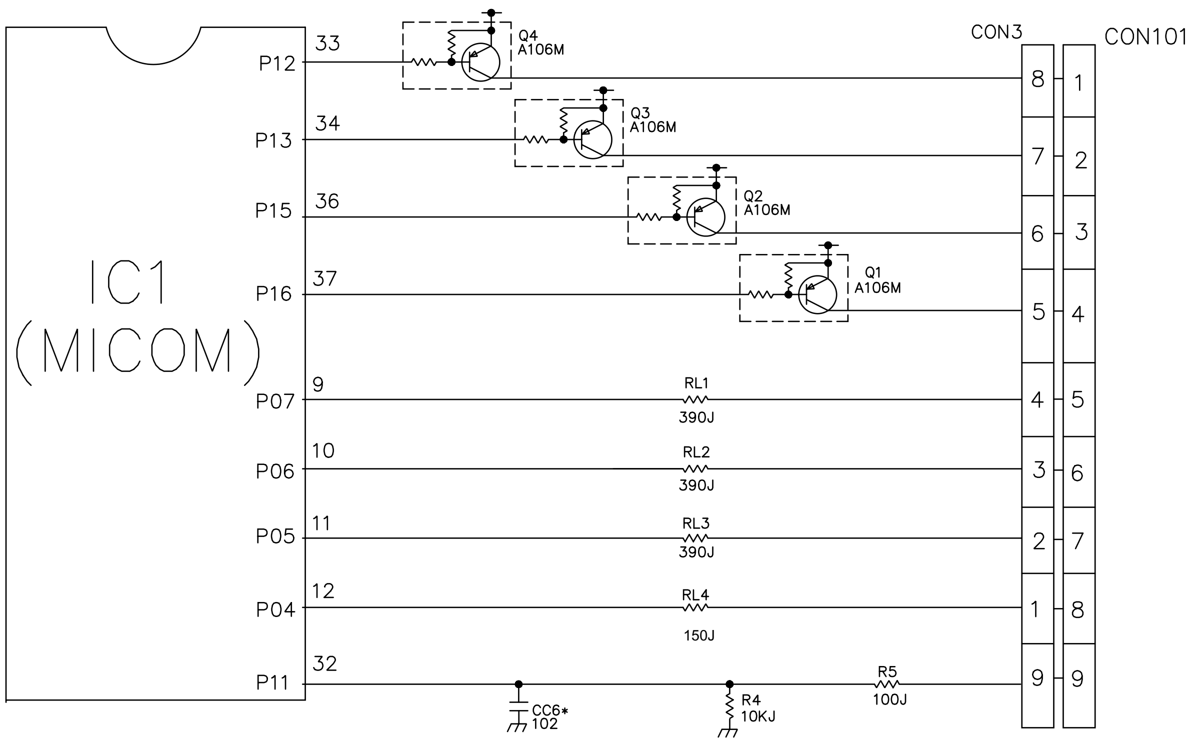
2. The temperature compensation for refrigerator compartment is in the following table:

	Revised resistance / Present resistance	470Ω	2kΩ	3.3kΩ	5.6kΩ	8.2kΩ	10kΩ	12kΩ	18kΩ	33kΩ	56kΩ	180kΩ
	470Ω	No change	0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up	3.5°C Up	4°C Up	4.5°C Up	5°C Up
	2kΩ	0.5°C Down	No Change	0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up	3.5°C Up	4°C Up	4.5°C Up
	3.3kΩ	1°C Down	0.5°C Down	No Change	0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up	3.5°C Up	4°C Up
	5.6kΩ	1.5°C Down	1°C Down	0.5°C Down	No Change	0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up	3.5°C Up
	8.2kΩ	2°C Down	1.5°C Down	1°C Down	0.5° Down	No Change	0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up
Refrigerator (RCR)	10kΩ	2.5°C Down	2°C Down	1.5°C Down	1°C Down	0.5°C Down	No Change	0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up
	12kΩ	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down	0.5°C Down	No Change	0.5°C Up	1°C Up	1.5°C Up	2°C Up
	18kΩ	3.5°C Down	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down	0.5°C Down	No Change	0.5°C Up	1°C Up	1.5°C Up
	33kΩ	4°C Down	3.5°C Down	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down	0.5°C Down	No Change	0.5°C Up	1°C Up
	56kΩ	4.5°C Down	4°C Down	3.5°C Down	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down	0.5°C Down	No Change	0.5°C Up
	180kΩ	5°C Down	4.5°C Down	4°C Down	3.5°C Down	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down	0.5°C Down	No Change

NOTE: This circuit is designed to input the necessary temperature compensation values into the MICOM. This adjusts the refrigerator temperature, which is different in each model.

9-2-8 Key Button Input & Display Light-On Circuit

◗ The circuit shown above determines whether a function control key on the operation display is pushed. It also turns on the corresponding function indication LED DISPLAY. The drive type is the scan type.



9-3 RESISTANCE SPECIFICATION OF SENSOR

TEMPERATURE DETECTED BY SENSOR	RESISTANCE OF FREEZER SENSOR	RESISTANCE OF REFRIGERATOR & DEFROST SENSOR & ROOM SENSOR
- 20 ˚C	22.3 KΩ	77 KΩ
- 15 ˚C	16.9 KΩ	60 KΩ
- 10 ˚C	13.0 KΩ	47.3 KΩ
- 5 ˚C	10.1 KΩ	38.4 KΩ
0 ˚C	7.8 KΩ	30 KΩ
+ 5 ˚C	6.2 KΩ	24.1 KΩ
+ 10 ˚C	4.9 KΩ	19.5 KΩ
+ 15 ˚C	3.9 KΩ	15.9 KΩ
+ 20 ˚C	3.1 KΩ	13 KΩ
+ 25 ˚C	2.5 KΩ	11 KΩ
+ 30 ˚C	2.0 KΩ	8.9 KΩ
+ 40 ˚C	1.4 KΩ	6.2 KΩ
+ 50 ˚C	0.8 KΩ	4.3 KΩ

- The resistance of the SENSOR has a ±5% common difference.
- Measure the resistance of the SENSOR after leaving it for over 3 minutes in the measuring temperature.
  This delay is necessary due to sensor response speed.

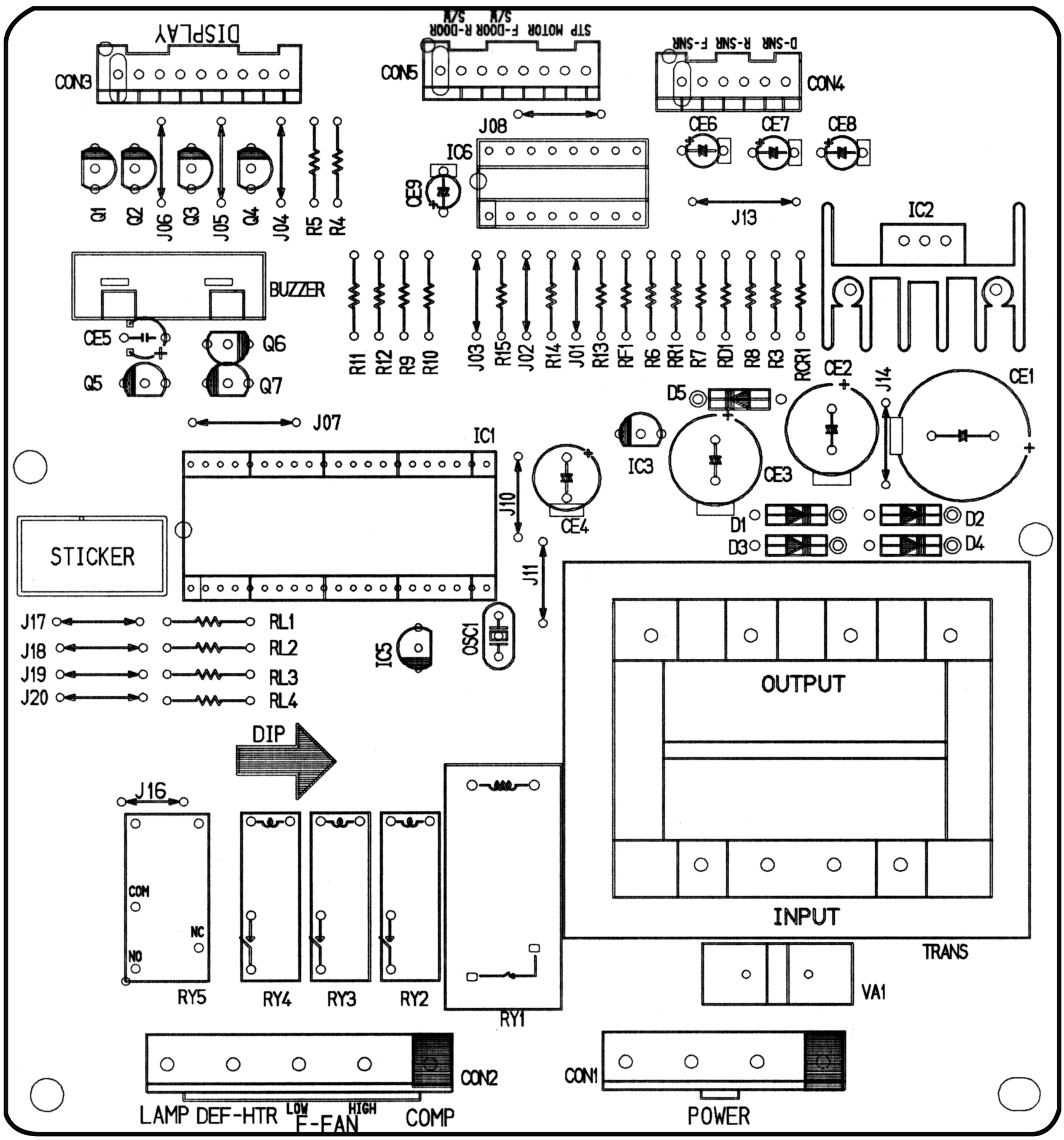
9-4 TROUBLESHOOTING

PROBLEM	INDICATED BY	CHECK	CHECKING METHOD	CAUSE	SOLUTION
POWER SOURCE is poor.	1. The whole DISPLAY LED/SEVEN SEGMENT DISPLAY is off. 2. DISPLAY LED/ SEVEN SEGMENT DISPLAY operates abnormally	1. FREEZER/ REFRIGERATOR.	Check if FREEZER/ REFRIGERATOR DOOR IS OPEN and check display.	POWER SOURCE is poor.	Check outlet Voltage.
		2. If LAMP is dim.	Check visually.	Applied voltage error.	Use boosting TRANS.
		3. The connection of the MAIN PWB CONNECTOR.	Check connection of CONNECTOR.	CONNECTOR connection is poor.	Reconnect CONNECTOR.
				TRANS FUSE is open.	Replace TRANS.
COOLING is poor.	NO COOLING.	1. If the COMPRESSOR operate.	USE TEST MODE1 (forced COOLING). If less than 7 minutes pass after compressor shuts off, don't press the KEY and wait.	COMPRESSOR locked or blocked.	Replace COMPRESSOR.
				OLP, PTC is poor. COMPRESSOR RELAY is poor.	Replace OLP, PTC. Replace MAIN PWB.
				THE CONNECTING WIRE is poor.	Check the connection of the black wire of the MAIN PWB CONNECTOR (CON2).
		2. If refrigerant is leaking. .	Measure the amount of frost sticking on EVAPORATOR and the surface temperature of the condenser pipe.	Refrigerant leakage.	Replace the leaking part and replace any lost refrigerant.
	FREEZER TEMPERATURE is incorrect	1. If FAN MOTOR operates.	USE TEST MODE1 (forced COOLING).	FAN MOTOR is poor.	Replace the FAN MOTOR.
				CONNECTING WIRE is poor.	Certify the MOTOR and the connection of the black wire of the MAIN PWB CONNECTOR (CON2).
		2. If DEFROSTING is normal.	Check the amount of frost sticking on the EVAPORATOR .	DEFROSTING is poor.	See **DEFROSTING is poor**.
		3. If SENSOR is normal.	Check the resistance of the Refrigerator SENSOR.	SENSOR RESISTANCE is poor.	Replace SENSOR.
		4. Door Line contact.	Check the seal when the door is closed.	Door liner damaged.	Replace door liner.

PROBLEM	INDICATED BY	CHECK	CHECKING METHOD	CAUSE	SOLUTION
COOLING is poor.	If REFRIGERATOR TEMPERATURE is too low.	1. If FREEZER TEMPERATURE is normal.	Check is FREEZER TEMPERATURE is too low.		Make sure the DOOR isattached.
		2. If amount of cool air from FAN MOTOR is sufficient.	Make sure that the amount and speed of cool air are sufficient by touching the check supplied on the REFRIGERATOR.	FAN MOTOR is poor.	Replace FAN MOTOR.
				Passage of cool air is blocked.	Remove impurities.
				EVA frozen.	See **DEFROSTING is poor**.
		3. Door Line contact.	Check door seal when door is closed.	Door liner damaged.	Replace Door liner.
DEFROSTING is poor.	NO DEFROSTING.	1. If HEATER emits heat.	USE TEST MODE2 (forced DEFROSTING).	HEATER disconnection.	Replace HEATER.
				TEMPERATURE FUSE disconnection.	Replace TEMPERATURE FUSE.
				Connection is poor.	Check EVAPORATOR connection and wire of MAIN PWB CONNECTOR.
				DEFROST-SENSOR is poor.	Replace DEFROST-SENSOR.
				HEATER RELAY is poor.	Replace RY3 of MAIN PWB.
		2. If DRAIN PIPE is blocked.	Check DRAIN PIPE.	DRAIN PIPE is blocked.	Remove ice and impurities.
					Check HEATER PLATE resistance.
		3. If ice remains after DEFROSTING.	Make sure that DEFROST SENSOR is connected.	Connection is poor.	Reassemble the DEFROST-SENSOR.
			Make sure that FREEZER / REFRIGERATOR DOOR is closed.	DOOR does not close properly.	Reassemble DOOR.
					Replace GASKET.

9-5 MAIN PWB ASSEMBLY AND PARTS LIST

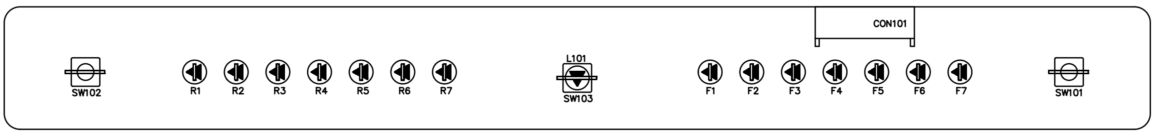
9-5-1 Main PWB Assembly



9-5-2 Replacement Parts List

No	P/NO	DESCRIPTION	SPEC	MAKER	REMARK
1	6870JB8089A = C	PWB(PCB)	KS-PJT GOOD MDL	DOO SAN	T:1.6
2	-	-	-	-	-
3	6170JB2002H	TRANSFORMER,LOW VOLTAGE	240V 15V YES GR-MICOM ONE TAB	TAE SUNG	TRANS
4	6170JB2002M	TRANSFORMER,LOW VOLTAGE	260V 15V YES GR-MICOM ONE TAB	TAE SUNG	TRANS
5	6170JB2002R	TRANSFORMER,LOW VOLTAGE	140V 15V YES GR-MICOM ONE TAB	TAE SUNG	TRANS
6	6170JB2002W	TRANSFORMER,LOW VOLTAGE	115V 15V YES GR-MICOM ONE TAB	TAE SUNG	TRANS
7	-	-	-	-	-
8	6630AQ9106C	CONNECTOR (CIRC),WAFER	YW396-07AV YEONHO 7PIN 3.96MM STRAIGHT SN	YEON HO	CON1
9	6630AQ9106D	CONNECTOR (CIRC),WAFER	YW396-09AV	YEON HO	CON2
10	6630AQ9106B	CONNECTOR (CIRC),WAFER	YW396-05AV	YEON HO	-
11	6630JB8007G	CONNECTOR (CIRC),WAFER	917786-1 AMP 8PIN 2.5MM STRAIGHT SN	AMP	CON5
12	6630JB8007H	CONNECTOR (CIRC),WAFER	917787-1 AMP 9PIN 2.5MM STRAIGHT SN	AMP	CON3
13	6630JB8007E	CONNECTOR (CIRC),WAFER	917784-1 AMP 6PIN 2.5MM STRAIGHT SN	AMP	CON4
14	-	-	-	-	-
15	0IZZJB2023L	IC,DRAWING	TMP87C846N 42 SDIP BK KS-BETTER/GOOD(MASK)	TOSHIBA	IC1(0IZZJB2022M)
16	0IZZJB2022	IC,DRAWING	-	TOSHIBA	IC1(0IZZJB2022)
17	0IZZJB2022	IC,DRAWING	-	TOSHIBA	IC1(0IZZJB2022)
18	-	-	-	-	-
19	0IKE781200B	IC,KEC	KIA7812PI 12V 1A,KEC - - - -	KEC	IC2
20	0IKE781200M	IC,KEC	KIA7812PI 3DIP BK 12V 1A REFORM	KEC	-
21	0IKE780500A	IC,KEC	KIA78S05P,3PIN,DIP. KEC	KEC	IC3
22	0ISTLM1001A	IC,STANDARD LOGIC	M54563FP MITSUBISHI 20 R/TP CONVERT	MITSUBISH	-
23	0IT0777400A	IC,TOSHIBA	TA7774AP 16 SDIP BK STEPPING MOTOR	TOSHIBA	IC6
24	0IKE650030C	IC,KEC	KID65003AF 16SOP BK 7CH DRIVER	KEC	IC4
25	0IKE704200A	IC,KEC	KIA7042P 3P BK RESET	KEC	IC5
26	0IRH934600D	IC,ROHM	BR93LC46RF-W 8PIN SOP BK EEPROM -	ROHM	-
27	-	-	-	-	-
28	692000001A	RELAY	ALE15B12 MATSUSHITA 250VAC 16A 12VDC 1A NO VENTING	NAIS	RY1
29	6920WRD010A	RELAY	US11-12S YUYU 250VAC 3A 12VDC 1A	YUYU	-
30	6920JB2003B	RELAY	ALD112 MATSUSHITA 250VAC 3A 12VDC 1A	OMRON	RY2-RY4
31	6920JB2009A = B	RELAY	G5SB-14 250VAC 5A 12VDC 1C	OMRON	RY5
32	-	-	-	-	-
33	-	-	-	-	-
34	6212JB8001B	RESONATOR,CERAMIC	CSTS0400 MURATA 4MHZ +/- 0.5% 15PF TP NONE	MURATA	OSC1(J570-00012B)
35	6102W5V006A	VARISTOR	INR14D331 ILJIN UL/CSA/VDE BK	ILJIN	VA1
36	6102JB8003A	VARISTOR	INR14D271 ILJIN UL/VDE TP 270V	ILJIN	VA1
37	6102JB8001B	VARISTOR	INR14D621 ILJIN UL/VDE BK 620V	ILJIN	VA1
38	0DD400709AA	DIODE,RECTIFIERS	1N4007 TP MOTOROLA - - 1A - - -	DELTA	D1-D5
39	-	-	-	-	-
40	-	-	-	-	-
41	0CE2286J610	CAPACITOR,AL.ELECTROLYTIC	2200 UF SMS,SG 35V M FL BULK	SAM HWA	CE1
42	0CE1086J610	CAPACITOR,FIXED ELECTROLYTIC	1000UF SMS,SG 35V 20% FL BULK	SAM HWA	-
43	0CE1086H618	CAPACITOR,AL.ELECTROLYTIC	1000 UF SMS,SG 25V M FL TP 5	SAM HWA	CE2
44	0CE4776H618	CAPACITOR,FIXED ELECTROLYTIC	470UF SMS,SG 25V 20% FL TP 5	SAM HWA	CE3
45	0CE2276F638	CAPACITOR,FIXED ELECTROLYTIC	220UF SMS,SG 16V 20% FM5 TP 5	SAM HWA	CE4
46	0CE1076H638	CAPACITOR,FIXED ELECTROLYTIC	100UF SMS,SG 25V 20% FM5 TP 5	SAM HWA	-
47	0CE1066K638	CAPACITOR,FIXED ELECTROLYTIC	10UF SMS,SG 50V 20% FM5 TP 5	SAM HWA	CE6-CE8
48	0CE1056K638	CAPACITOR,FIXED ELECTROLYTIC	1UF SMS,SG 50V 20% FM5 TP 5	SAM HWA	CE9
49	0CE4761H638	CAPACITOR,FIXED ELECTROLYTIC	47UF SMS,SG 25V 20% FM5 TP 5	SAM HWA	CE5
50	0CQ2231N409	CAPACITOR,POLYESTER	0.022 UF D 100V J PE TP	SAM HWA	-
51	0CK102DK96A	CAPACITOR,FIXED CERAMIC(HIGH DIELECTRIC)	1NF 2012 50V 80%,-20% R/TP X7R		CC6
52	0CK223DK96A	CAPACITOR,FIXED CERAMIC(HIGH DIELECTRIC)	22NF 2012 50V 80%,-20% R/TP X7R	MURATA	CC7-CC11
53	-	-	-		-
54	0CK104DK94A	CAPACITOR,FIXED CERAMIC(HIGH DIELECTRIC)	100NF 2012 50V R/TP (GRM40X7R104K50PE)	MURATA	CC1-CC5
55	-	-	-	-	-
56	0CK1040K949	CAPACITOR,FIXED CERAMIC(HIGH DIELECTRIC)	0.1UF D 50V 80%,-20% F(Y5V) TA52		-
57	-	-	-	MURATA	-
58	-	-	-		-
59	0RD1500G609	RESISTOR,FIXED CARBON FILM	150 OHM 1/4W 5.00% TA52	SMART	RL4
60	0RD3900G609	RESISTOR,FIXED CARBON FILM	390 OHM 1/4 W 5.00% TA52	SMART	RL1-RL3
61	0RD1000G609	RESISTOR,FIXED CARBON FILM	100 OHM 1/4 W 5.00% TA52	SMART	R5
62	0RJ1001E672	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1/8 W 5% 2012 R/TP	ROHM	R16
63	0RJ2001E672	RESISTOR,METAL GLAZED(CHIP)	2K OHM 1/8 W 5% 2012 R/TP	ROHM	-
64	0RD2001G609	RESISTOR,FIXED CARBON FILM	2K OHM 1/4 W 5.00% TA52	SMART	R6-R12
65	0RH2200L622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1/8 W 2012 5.00% D	ROHM	R17
66	0RJ2201E672	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1/8 W 5% 2012 R/TP	ROHM	-
67	0RJ4701E672	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1/8 W 5% 2012 R/TP	ROHM	R1
68	0RJ4701E672	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1/8 W 5% 2012 R/TP	ROHM	-
69	0RD4701G609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/4 W 5.00% TA52	SMART	-
70	0RJ1002E672	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1/8 W 5% 2012 R/TP	ROHM	-
71	0RJ1002E672	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1/8 W 5% 2012 R/TP	ROHM	-
72	0RD1002G609	RESISTOR,FIXED CARBON FILM	10K OHM 1/4 W 5.00% TA52	SMART	R3,R4,RCR1,R13-R15
73	0RJ2702E672	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1/8 W 5% 2012 R/TP	ROHM	-
74	0RJ1004E672	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1/8 W 5% 2012 R/TP	ROHM	R2
75	0RJ2612E472	RESISTOR,FIXED METAL FILM	26.1K OHM 1/4 W 1.00% TA52	SMART	RR1,RD1
76	0RJ1622E472	RESISTOR,FIXED METAL FILM	16.2K OHM 1/4 W 1.00% TA52	SMART	RF1
77	-	-	-	-	-
78	-	-	-	-	-
79	3J03565D	FUSE,DRAWING	9A 250V - -	SAM JU	-
80	0TR106009AC	TRANSISTOR	KRA106M(KRA2206) TP KEC	KEC	Q1-Q4 Q6
81	0TR106009AF	TRANSISTOR	KRC 106M KEC	KEC	Q5,Q7
82	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	KEC	-
83	6908JB3002F	BUZZER	CBE2220BP DAE YOUNG PIEZO 2KHZ 75DB(CHINA)	DAE YOUNG	BUZZER
84	6600RRT001Z	SWITCH,TACT	JTP1280A6 JEIL 12V DC 50MA	JEIL	-
85	6854B50001A	JUMP WIRE	0.6MM 52MM TP TAPING SN(8MM)	-	J16
86	6854B50001A	JUMP WIRE	0.6MM 52MM TP TAPING SN(10MM)	-	J1-J6,J8,J10,J14,J17-J20
87	6854B50001A	JUMP WIRE	0.6MM 52MM TP TAPING SN(12.5MM)	-	J13
88	6854B50001A	JUMP WIRE	0.6MM 52MM TP TAPING SN(12.5MM)	-	J07
89	6854B50001A	JUMP WIRE	0.6MM 52MM TP TAPING SN	-	-
90	6854B50001A	JUMP WIRE	0.6MM 52MM TP TAPING SN	-	-
91	4920JB3003A	HEAT SINK	30*25*30 IC-12V R-B50,51,52,53,54,55,56 2PIN 1-SCREW 3	-	(IC2)
92	1SBF0302418	SCREW TAP TITE(S),BINDING HEAD	+ D3.0 L8.0 MSWR3/FZY	-	(IC2)
93	9VWF0120000	SOLDER(ROSIN WIRE) RSO	D1.20	HEE SUNG	-
94	49111004	SOLDER,SOLDERING	H63A	-	-
95	59333105	FLUX	SG;0.825-0.830 KOREA F.H-206	KOKI	-

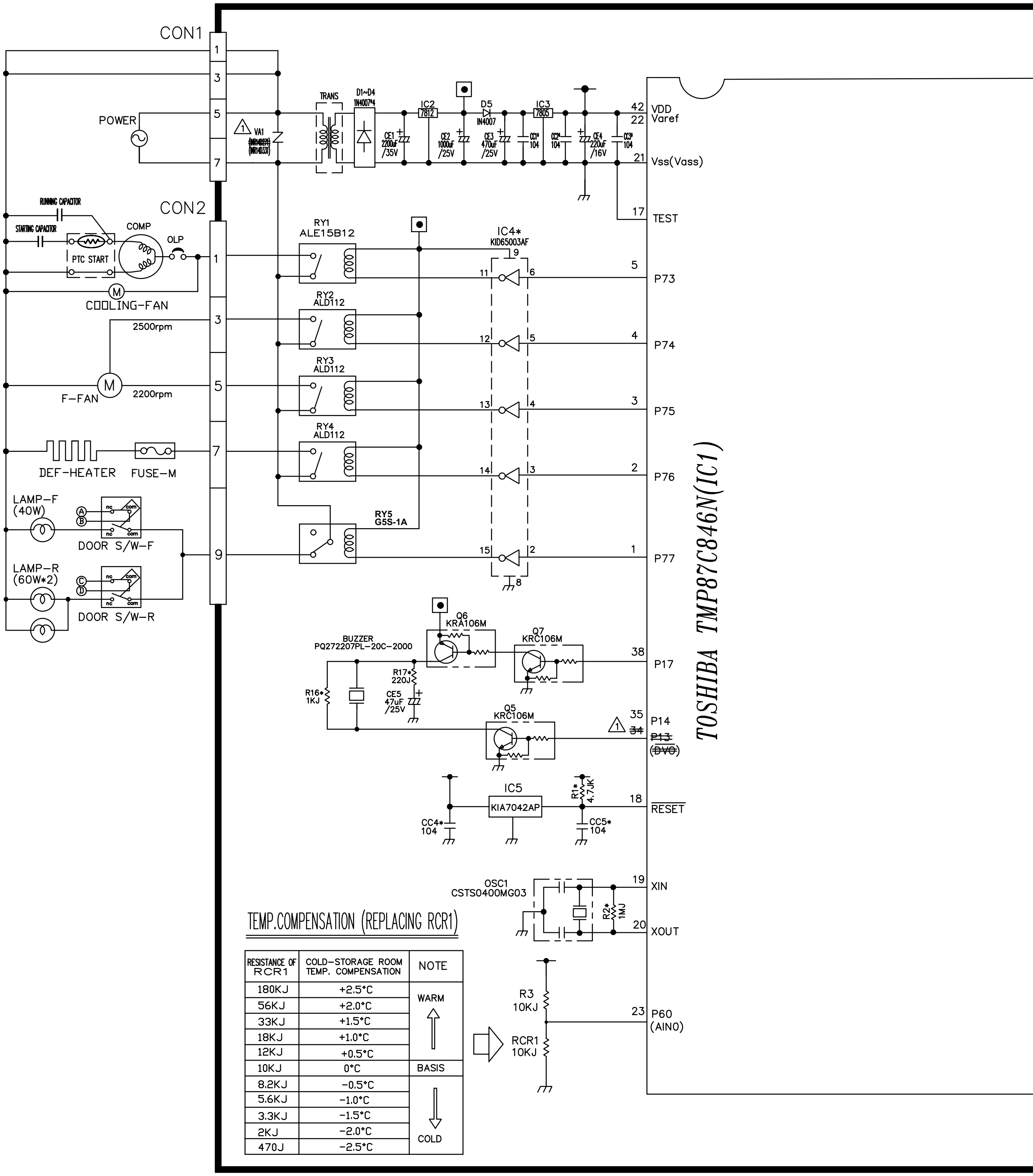
9-5-3 PWB Assembly, Display, And Parts List



Qty	No	P/NO	DESCRIPTION	SPEC	MAKER	REMARK
1	1	6870JB8091A	PWB(PCB)	KS-PJT GOOD/BETTER DISPLAY	DOO SAN	t=1.6
	2					
1	3	6630AQ9159H	WAFER	SMAW250-09	YEON HO	CON101
	4					
2	5	6600RRT002K	SWITCH,TACT	JTP1230A JEIL 12V DC 50MA	JEIL	SW101,102
		6600JB8005A		KPT-1105A	KYUNG IN	
1	6	-	TACT S/W	KPT-1109G	KYUNG IN	SW103
14	7	0DLLE0019AA	LED	LT1824-81-BCM TP GREEN 2		R1~R7,F1~F7
3	8	0DD414809AA	DIODE,SWITCHING	1N4148 26MM	PYUNG CHANG DELTA	D101,102,103
12	10	6854B50001A	JUMP WIRE	0.6MM 52MM TP TAPING SN (10MM)	-	J101~J112
	11					
-	12	9VWF0120000	SOLDER(ROSIN WIRE) RS0	D1.20	HEE SUNG	-
0.01	13	49111004	SOLDER,SOLDERING	H63A	-	-
0.0005	14	59333105	FLUX	SG;0.825-0.830 KOREA F.H-206	KOKI	-

9-6 PWB DIAGRAM

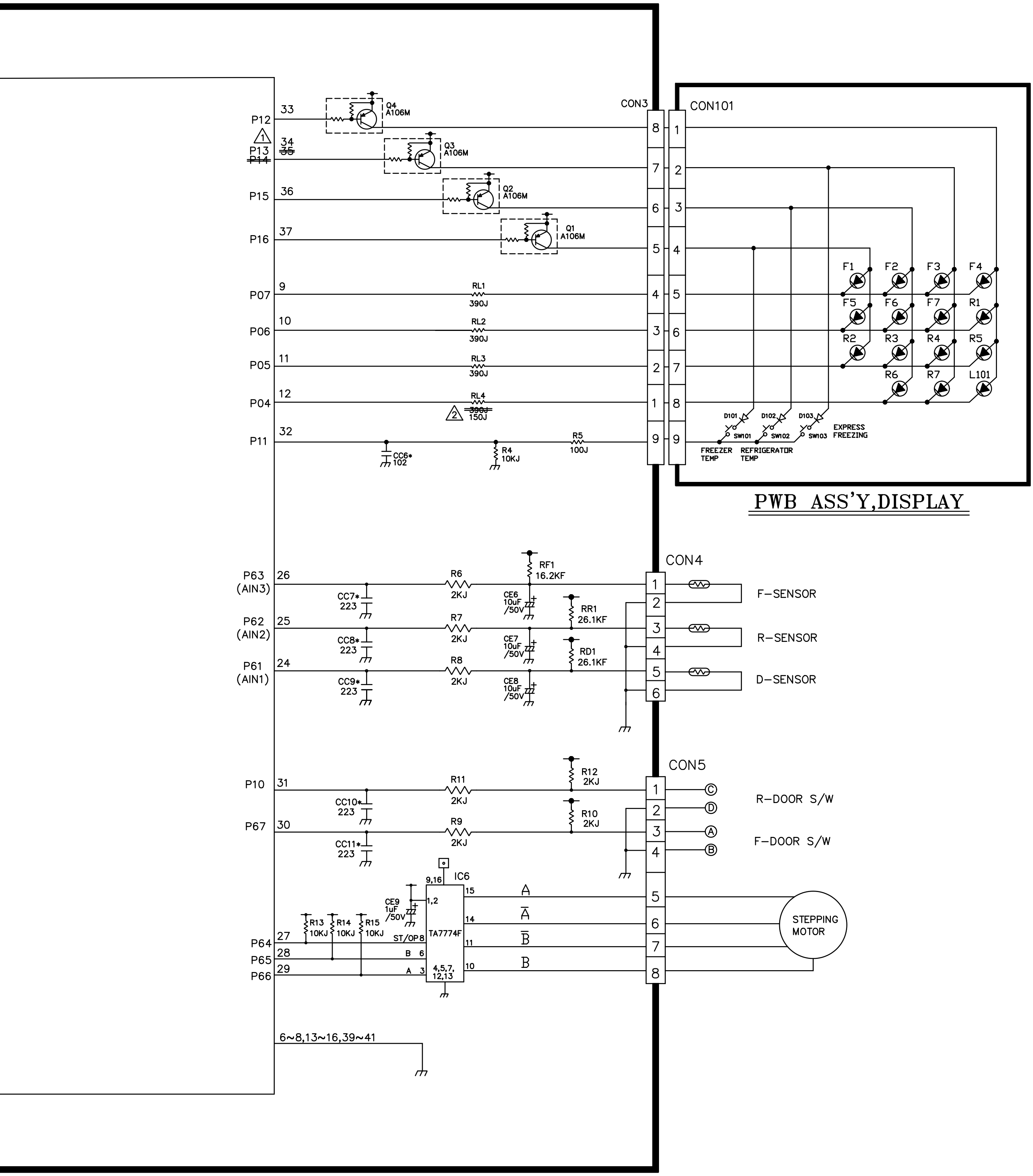
9-6-1 PWB Main Assembly



TEMP.COMPENSATION (REPLACING RCR1)

RESISTANCE OF RCR1	COLD-STORAGE ROOM TEMP. COMPENSATION	NOTE
180KJ	+2.5°C	WARM
56KJ	+2.0°C	
33KJ	+1.5°C	
18KJ	+1.0°C	
12KJ	+0.5°C	
10KJ	0°C	BASIS
8.2KJ	-0.5°C	COLD
5.6KJ	-1.0°C	
3.3KJ	-1.5°C	
2KJ	-2.0°C	
470J	-2.5°C	

FIG.1 CIRCUIT DIAGRAM

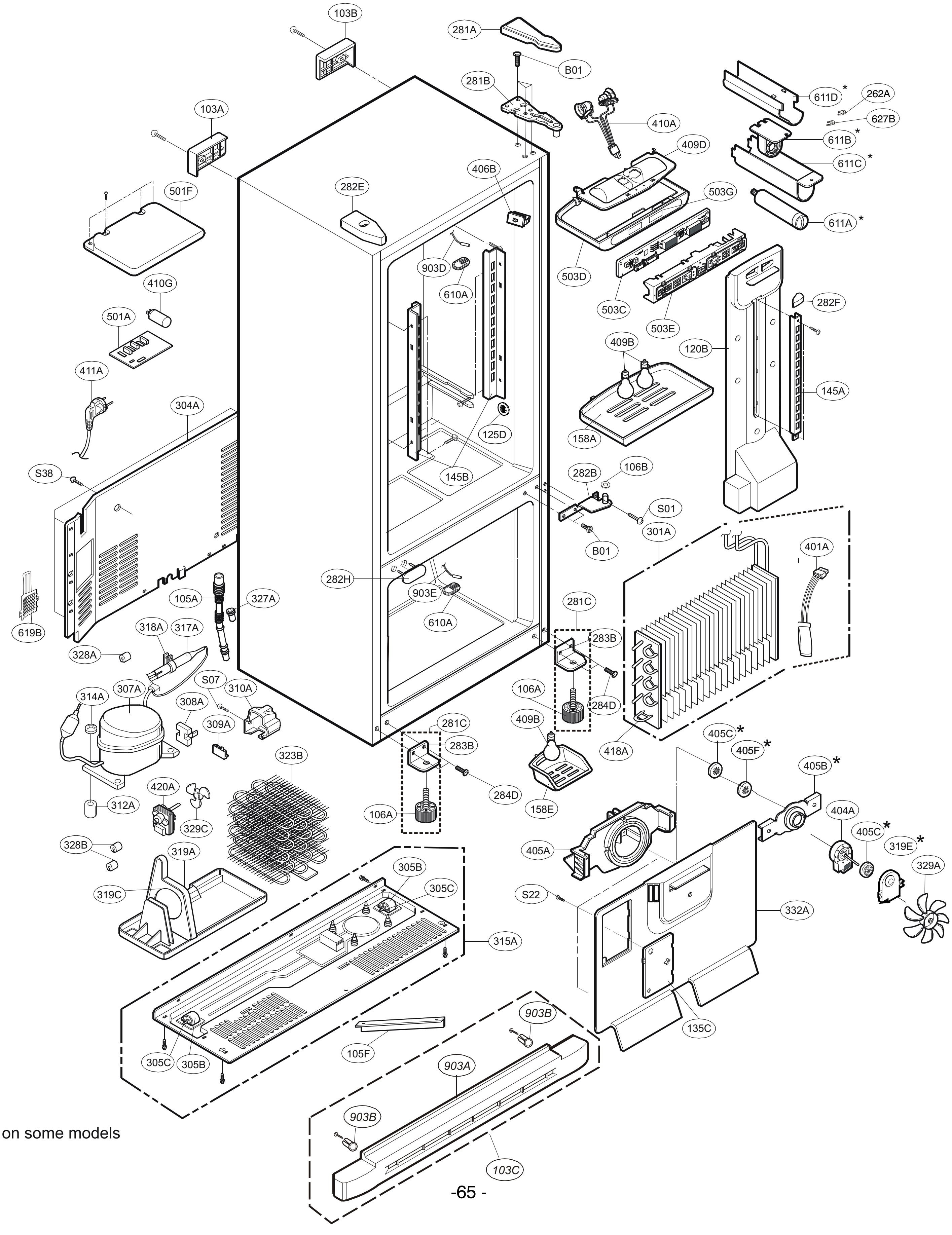


P12
P13
P14
P15
P16
P07
P06
P05
P04
P11
Q4 A106M
Q3 A106M
Q2 A106M
Q1 A106M
RL1 390J
RL2 390J
RL3 390J
RL4 390J 150J
CC6* 102
R4 10KJ
R5 100J
CON3
CON101
F1 F2 F3 F4
F5 F6 F7 R1
R2 R3 R4 R5
R6 R7 L101
D101 D102 D103
SW101 SW102 SW103
FREEZER TEMP
REFRIGERATOR TEMP
EXPRESS FREEZING
PWB ASS'Y,DISPLAY
P63 (AIN3)
P62 (AIN2)
P61 (AIN1)
CC7* 223
CC8* 223
CC9* 223
R6 2KJ
R7 2KJ
R8 2KJ
RF1 16.2KF
CE6 10uF /50V
CE7 10uF /50V
CE8 10uF /50V
RR1 26.1KF
RD1 26.1KF
CON4
F-SENSOR
R-SENSOR
D-SENSOR
P10
P67
CC10* 223
CC11* 223
R11 2KJ
R9 2KJ
R12 2KJ
R10 2KJ
CON5
R-DOOR S/W
F-DOOR S/W
IC6
TA7774F
CE9 1uF /50V
R13 10KJ
R14 10KJ
R15 10KJ
ST/OP
P64
P65
P66
STEPPING MOTOR
6~8,13~16,39~41

EXPLODED VIEW

CASE PARTS

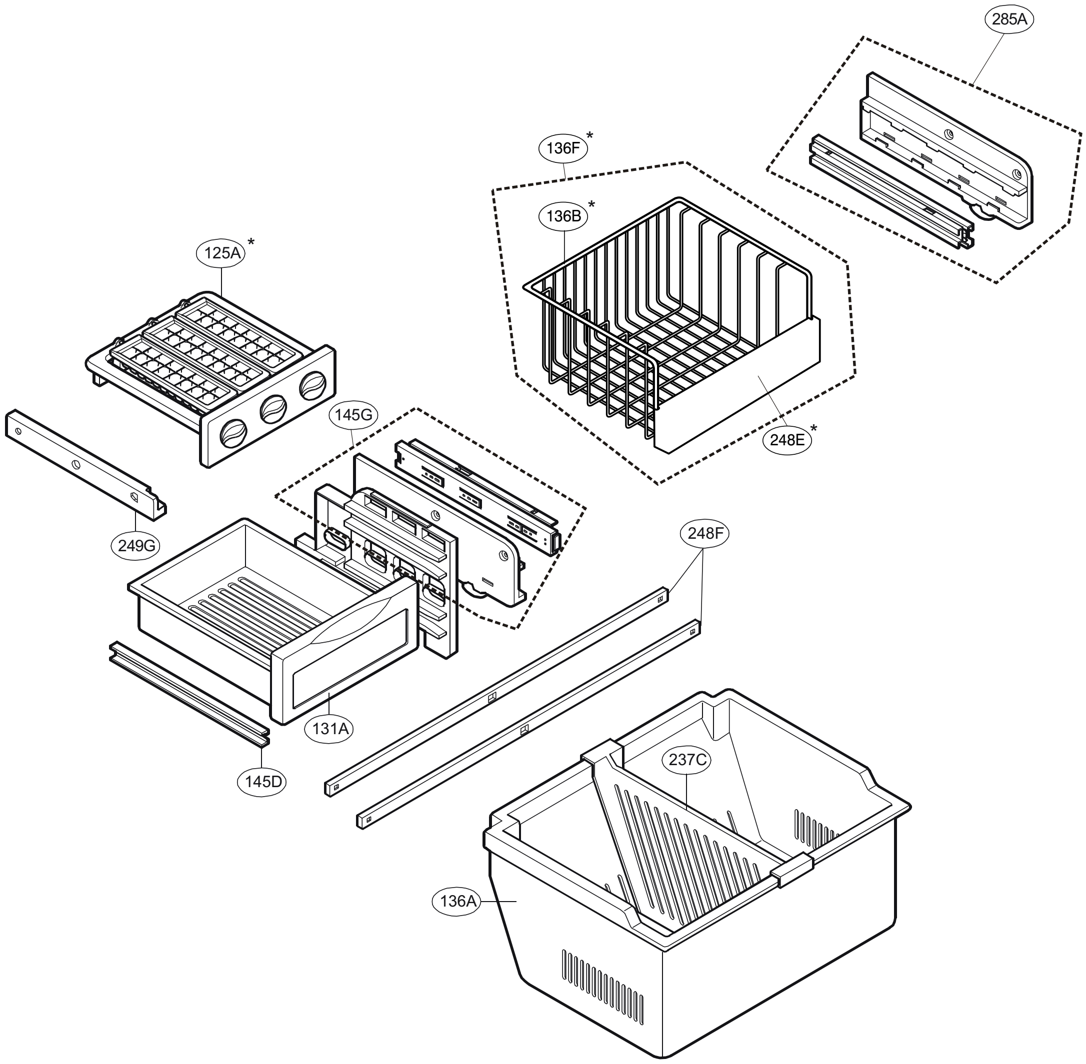
CAUTION: Use the part number to order part, not the position number.



* : on some models

FREEZER PARTS

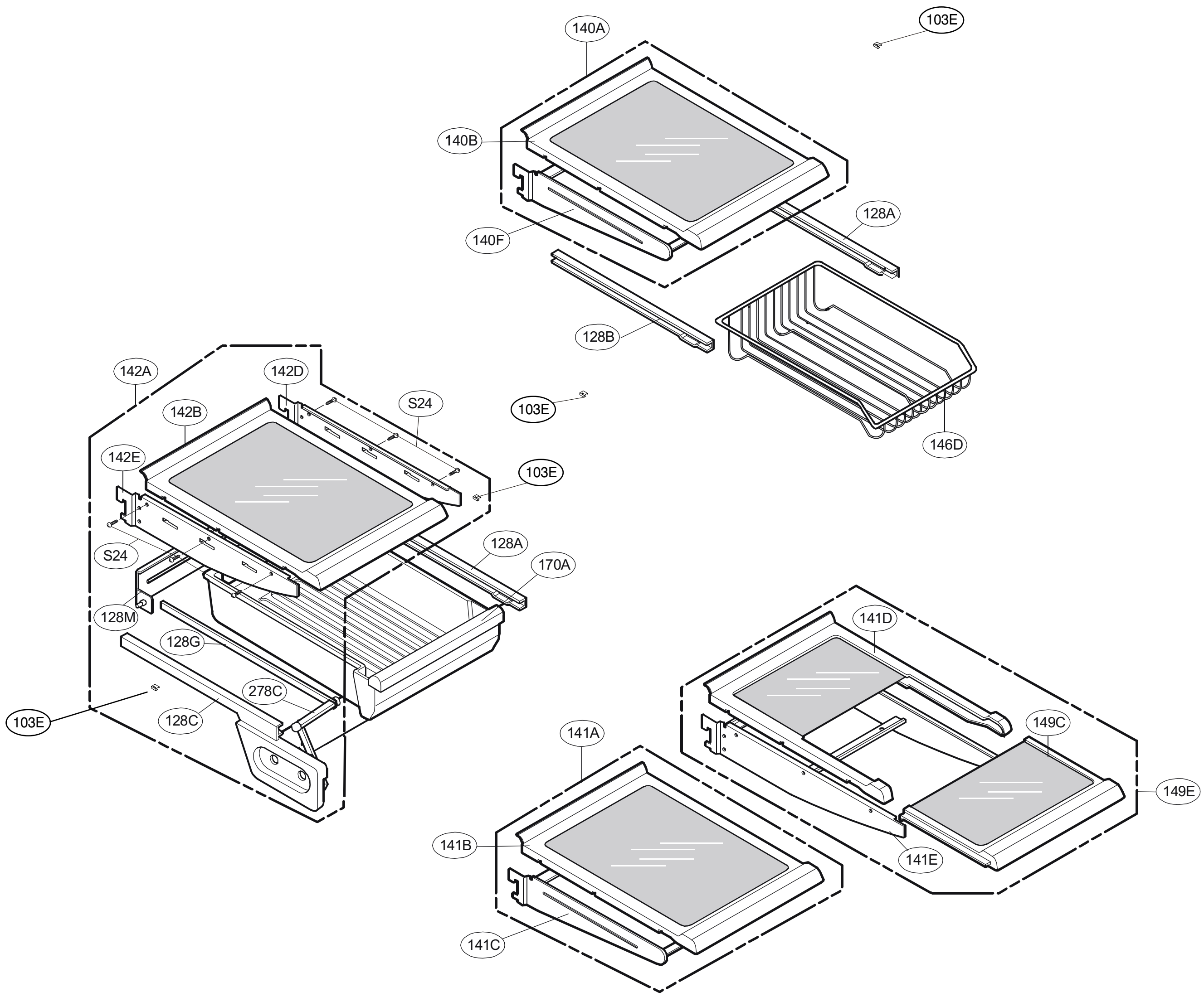
CAUTION: Use the part number to order part, not the position number.



* : on some models

REFRIGERATOR PARTS

CAUTION: Use the part number to order part, not the position number.



LRDN22734WW **LRDC22744TT**

LRDN22734ST **LRDC22744SW**

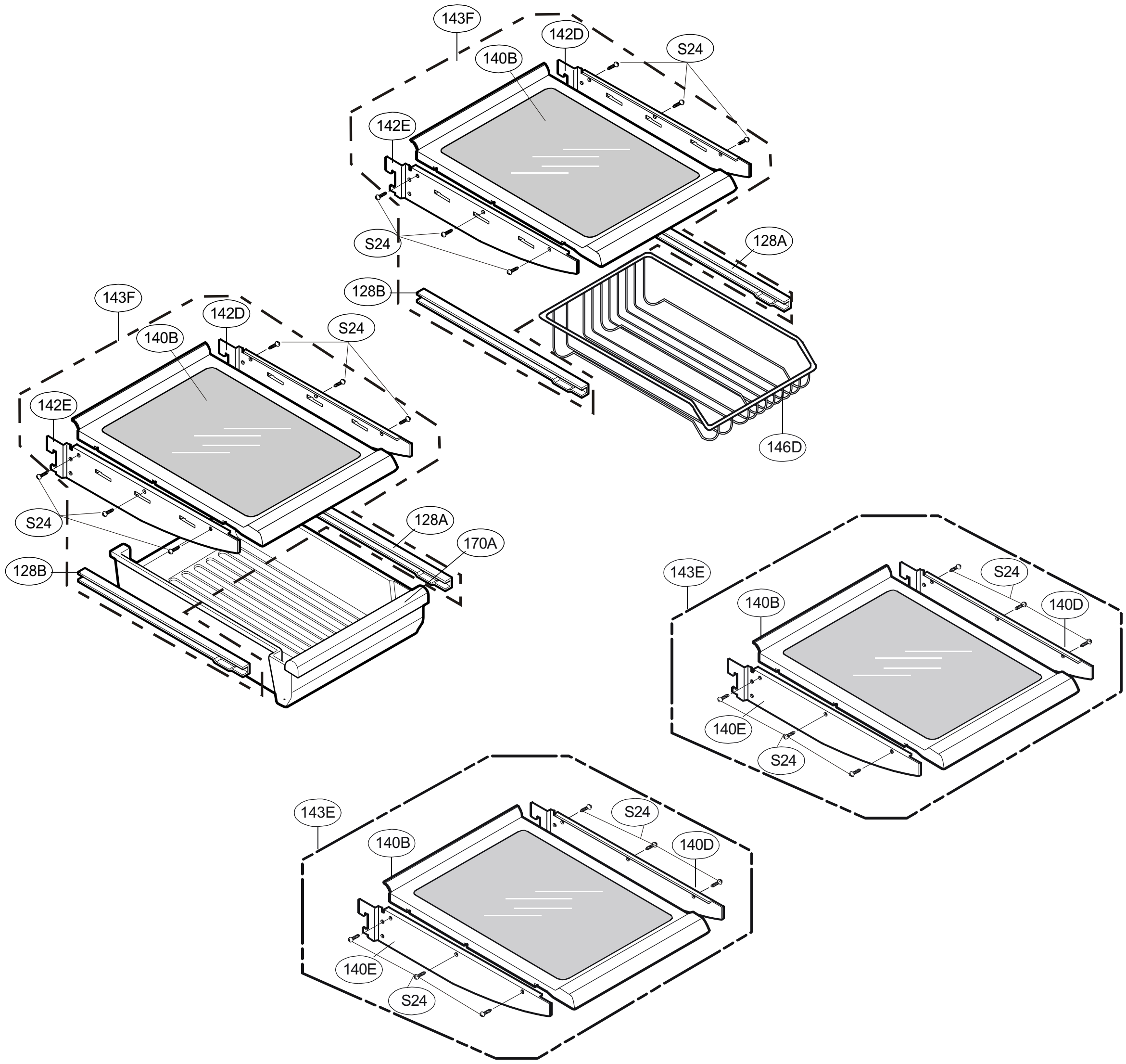
LRDN22734TT **LRDC22744ST**

LRDN22734SB

-

REFRIGERATOR PARTS

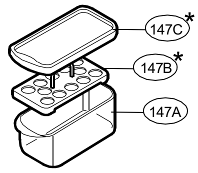
CAUTION: Use the part number to order part, not the position number.

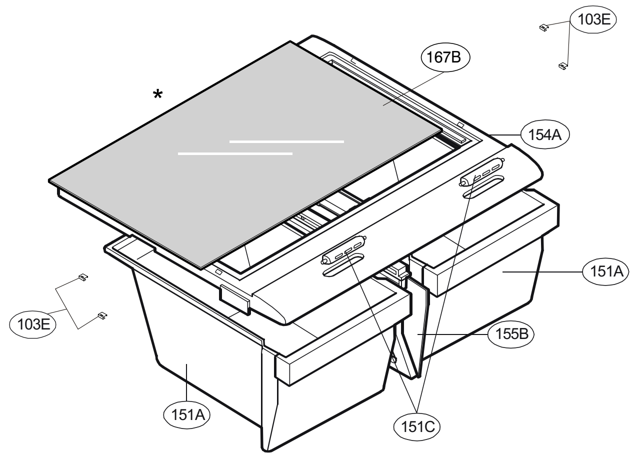


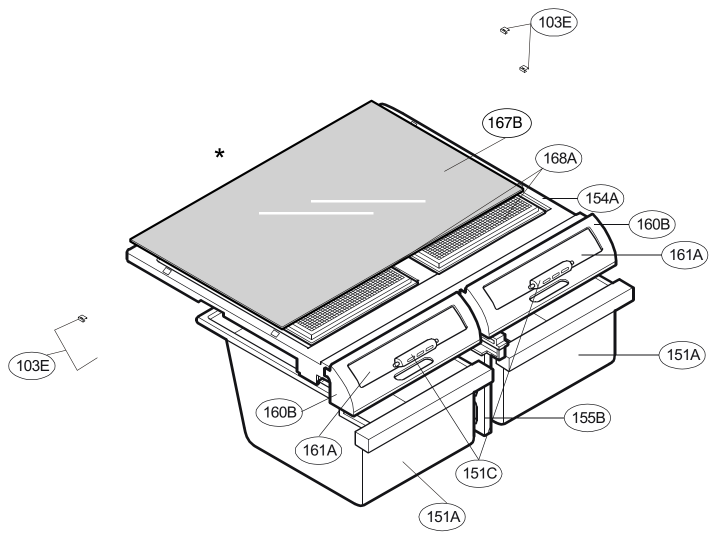
LRDN20724TT
LRDN20724ST
LRDN20724SB
LRDN22712SW
LRDN22712ST
LRDN20724WW

REFRIGERATOR PARTS

CAUTION: Use the part number to order part, not the position number.





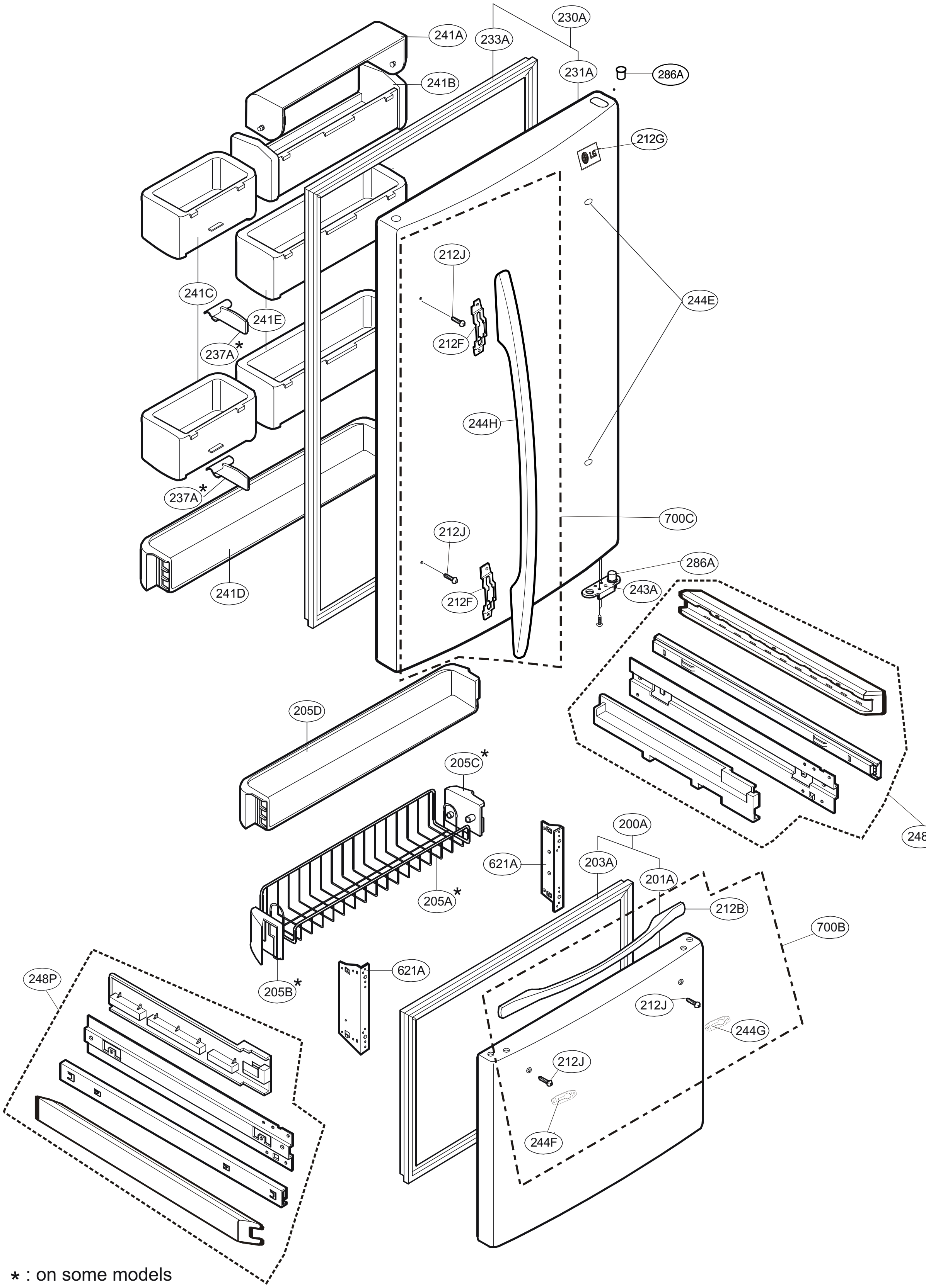


* : on some models

6

DOOR PARTS

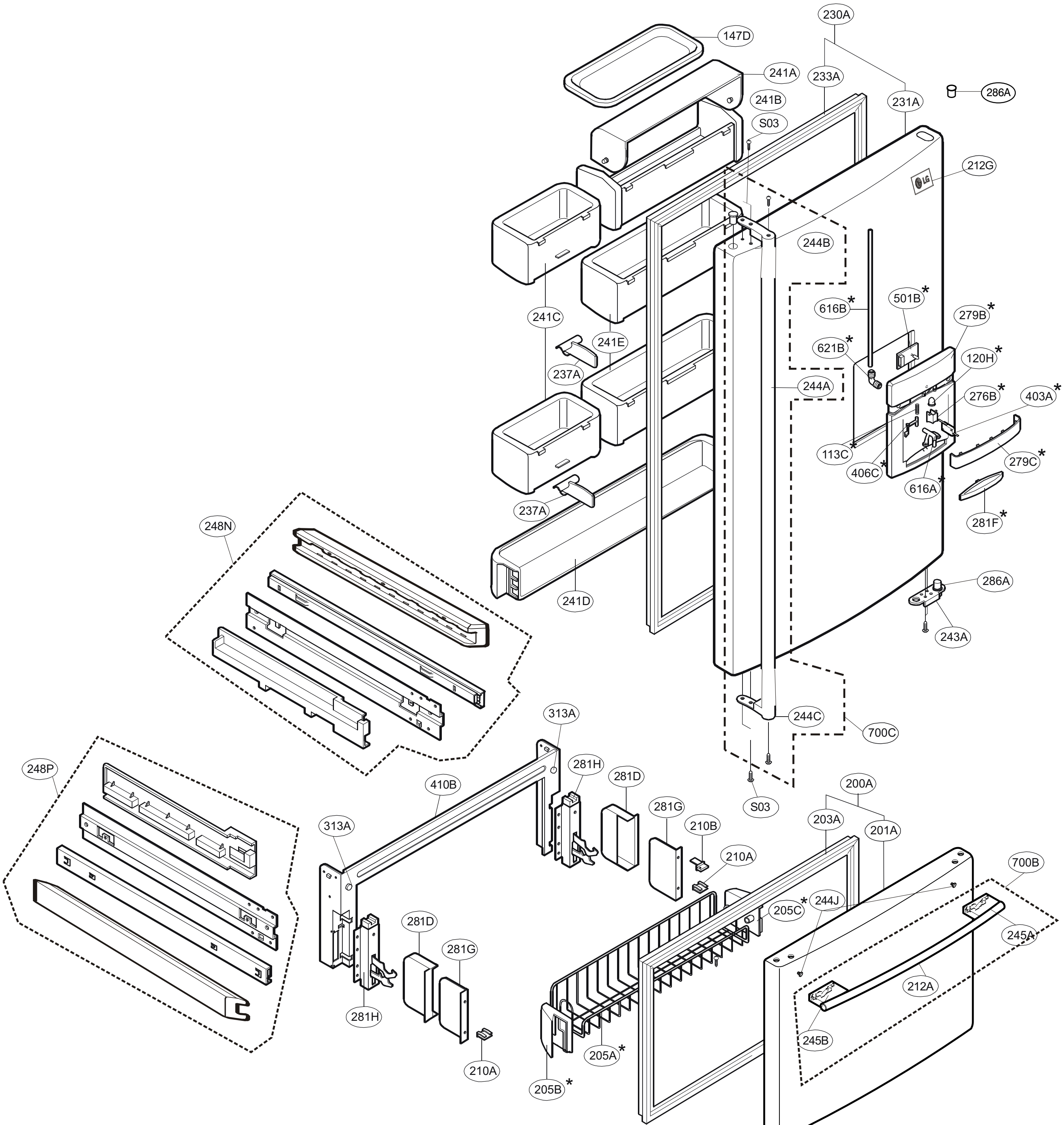
CAUTION: Use the part number to order part, not the position number.



* : on some models

DOOR PARTS

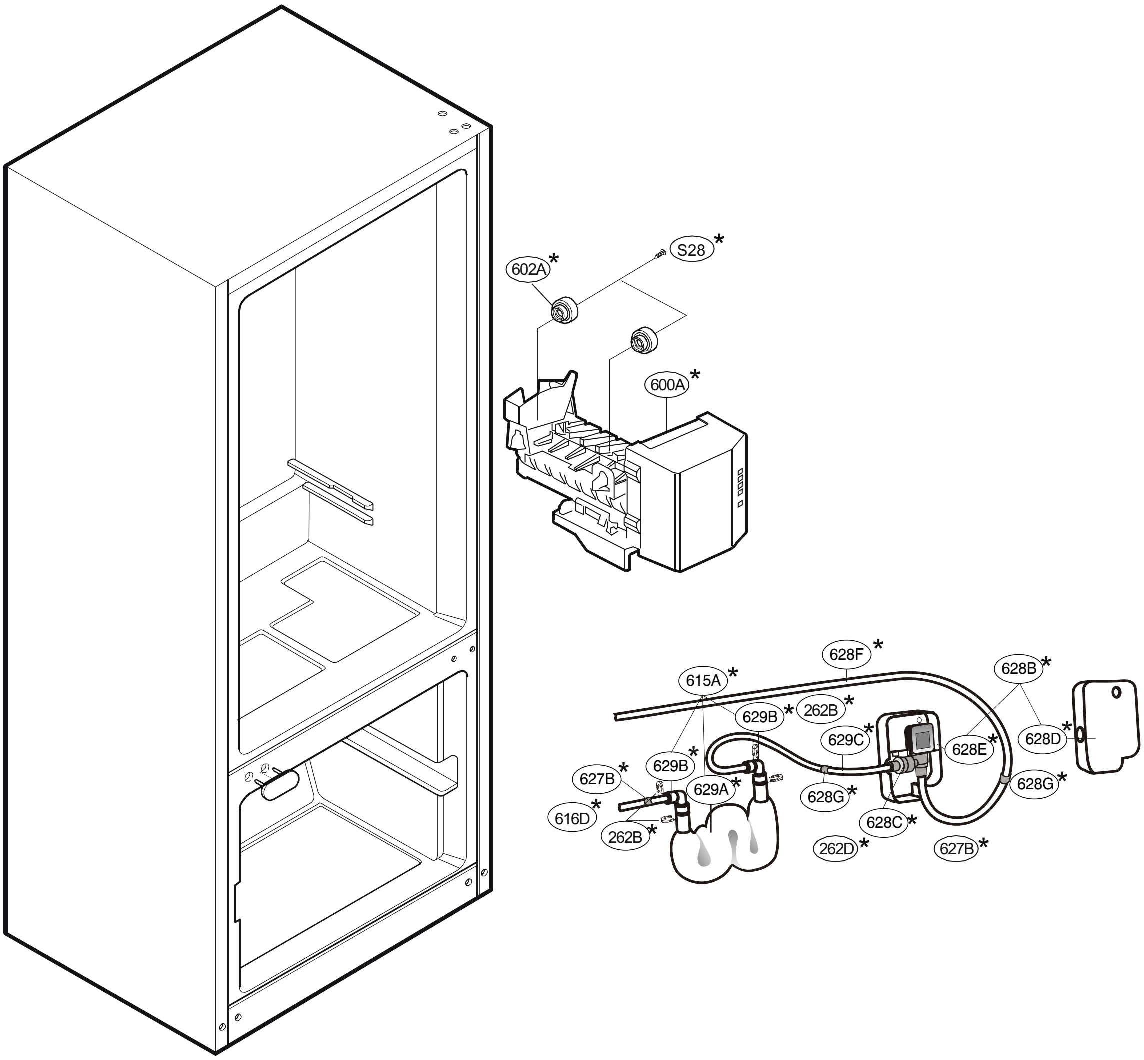
CAUTION: Use the part number to order part, not the position number.



* : on some models

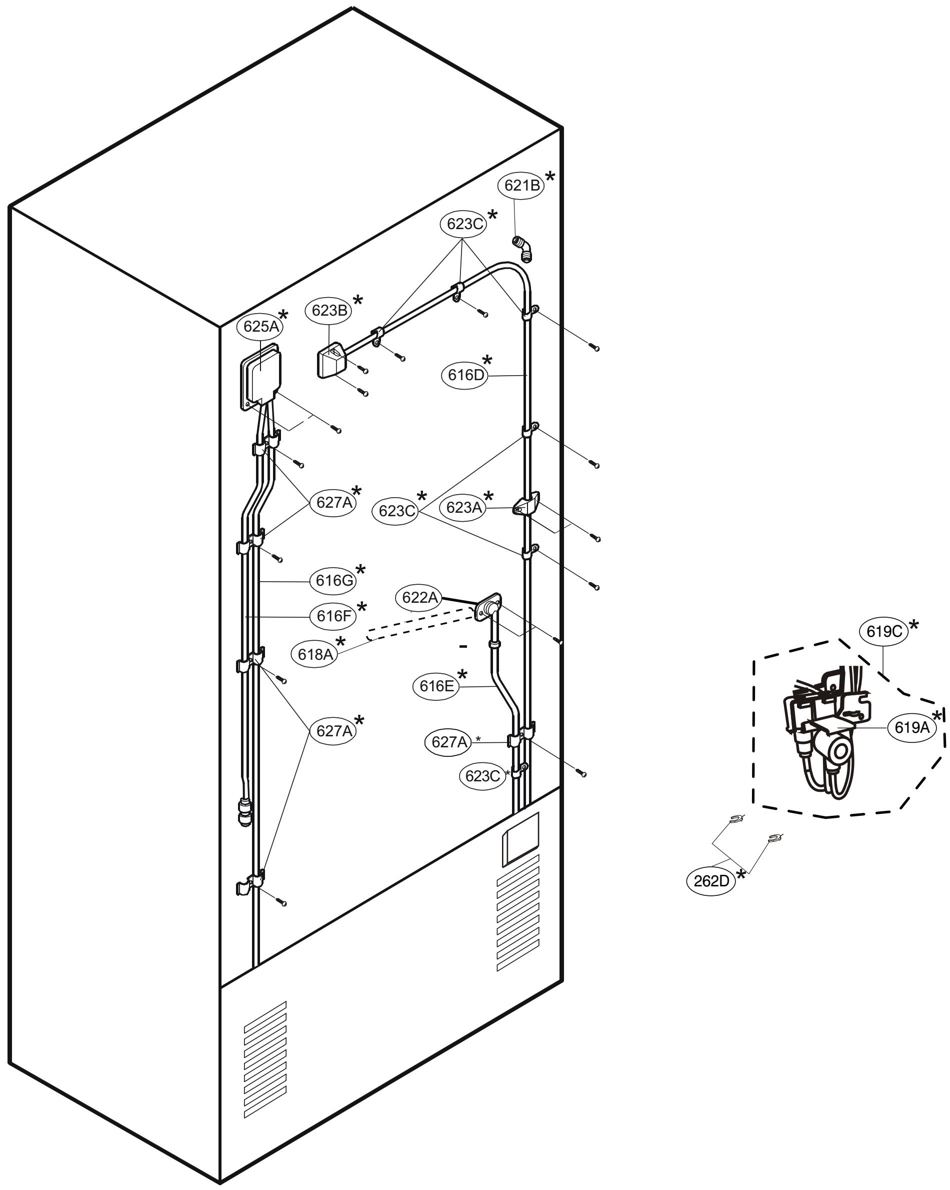
ICE MAKER PARTS

CAUTION: Use the part number to order part, not the position number.



ICE & WATER PARTS

CAUTION: Use the part number to order part, not the position number.



LRDC22744ST

LOC	DESCRIPTION	PART NO.
103A	HANDLE,BACK	3650JJ2003M
103B	HANDLE,BACK	3650JJ2003L
103C	COVER ASSEMBLY,LOWER	3551JJ1015F
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
105A	DRAIN ASSEMBLY,PIPE-Z	5251JA3003B
105F	SKIRT,LOWER	5070JJ3002A
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A
106B	WASHER,DRAWING	4J00382C
113C	SPRING,W	4970JJ3004A
120B	DUCT ASSEMBLY,MULTI	5209JJ1002A
120H	COVER,LED	3550JJ3003A
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A
128B	GUIDE ASSEMBLY,RAIL	4975JJ2002B
128C	GUIDE ASSEMBLY,RAIL	4975JJ2003C
128G	LINK	4520JJ2001A
128M	GUIDE,AIR	4974JJ2011A
131A	BANK ASSEMBLY,ICE	5075JJ1001B
135C	COVER,GRILLE FAN	3550JJ2030A
136A	TRAY ASSEMBLY,DRAWER	3391JJ1011B
136B	TRAY,DRAWER	3390JJ1087A
136F	TRAY ASSEMBLY,DRAWER	3391JJ1033B
140A	SHELF ASSEMBLY,R	5027JJ1014D
140B	SHELF ASSEMBLY,R	5027JJ1005A
140F	SHELF ASSEMBLY,NET	5027JJ2005F
141A	SHELF ASSEMBLY,R	5027JJ1014B
141B	SHELF ASSEMBLY,R	5027JJ1005A
141C	SHELF ASSEMBLY,NET	5027JJ2005C
141D	SHELF ASSEMBLY,R	5027JJ2011B
141E	SHELF ASSEMBLY,NET	5027JJ2005D
142A	SHELF ASSEMBLY,R	5027JJ1013U
142B	SHELF ASSEMBLY,R	5027JJ1006A
142D	SHELF,NET	5026JJ2001L
142E	SHELF,NET	5026JJ2001M
145A	HOLDER,SHELF	4930JJ2003A
145B	HOLDER,SHELF	4930JJ2004A
145D	GUIDE,RAIL	4974JJ1012A
145G	GUIDE ASSEMBLY,RAIL	4975JJ2005H
146D	CAN,SERVER	5044JJ1001A
147A	BANK,DAIRY	5074JJ1005A
147B	TRAY,EGG	3390JJ1014A
147C	COVER,BANK	3550JJ1017A
147D	TRAY,BUTTER	3390JJ2003A
149C	SHELF ASSEMBLY,R	5027JJ2010B
149E	SHELF ASSEMBLY,R	5027JJ2009B
151A	TRAY ASSEMBLY,VEGETABLE	3391JJ1019E
151C	KNOB,SHUTTER	4940JJ2003B
154A	COVER,T/V	3550JJ1033A
155B	SUPPORTER ASSEMBLY,COVER-T/V	4981JJ2001A
158A	COVER,LAMP	3550JJ1040A
158E	COVER,LAMP	3550JJ1051A
160B	DECO,TRAY	3806JL2005D
161A	COVER,TRAY	3550JJ2026A
167B	GLASS,SHELF	4890JL1002K
168A	COVER,MAGIC ROOM	3550JJ1035A
170A	TRAY ASSEMBLY,MEAT	3391JJ2004K
200A	DOOR ASSEMBLY,F	3581JJ8018H
201A	DOOR FOAM ASSEMBLY,F	5433JJ0058M
203A	GASKET ASSEMBLY,DOOR	4987JJ1004E
205A	BASKET,DOOR	5004JJ1042B
205B	BASKET,TILT	5004JJ2005B
205C	BASKET,TILT	5004JJ2005A
210A	STOPPER,DOOR	4620JJ2005A
210B	STOPPER,DOOR	4620JJ2008A
212A	HANDLE,F	3650JJ1035A
212G	MARK	3846JD1007B
230A	DOOR ASSEMBLY,R	3581JJ8025C
231A	DOOR FOAM ASSEMBLY,R	5433JJ0033C
233A	GASKET ASSEMBLY,DOOR	4987JJ1004F
237A	GUIDE,BOTTLE	4974JJ2012A
237C	GUIDE,DRAWER	4974JJ1021A
241A	COVER,TRAY	3550JL2003H
241B	BASKET,DOOR	5004JJ1021A
241C	BASKET ASSEMBLY,DOOR	5005JJ2017A
241D	BASKET ASSEMBLY,DOOR	5005JJ2020A
241E	BASKET ASSEMBLY,DOOR	5005JJ2018A
243A	STOPPER,DOOR	4620JJ3006C
244A	HANDLE,R	3650JJ1034E
244B	HOLDER,HANDLE	4930JJ2023A
244C	HOLDER,HANDLE	4930JJ2022A
244J	STOPPER,HANDLE	4620JJ3007A
245A	HOLDER,HANDLE	4930JJ2019B
245B	HOLDER,HANDLE	4930JJ2020B
248E	DECO,TRAY	3806JJ2035A
248F	SUPPORTER,HOLDER	4980JJ2005A
248N	RAIL ASSEMBLY,SLIDE	5219JJ2002A
248P	RAIL ASSEMBLY,SLIDE	5219JJ2002B
262A	HOLDER,BRACKET	4930JA3093A
262A	HOLDER,BRACKET	4930JA3093A
262A	HOLDER,BRACKET	4930JA3093A
262B	HOLDER,BRACKET	4930JA3093B
262D	CLIP	4004JA3002A
262D	CLIP	4004JA3002A
276B	BUTTON,LEVER	5020JJ3001C
278C	LEVER,SHUTTER	4510JJ2002A
279B	COVER,DISPENSER	3550JL1005D
279C	DECO,DISPENSER	3806JJ2021D
281A	COVER,HINGE	3550JJ1039C
281B	HINGE ASSEMBLY,U	4775JJ2005A
281C	HINGE ASSEMBLY,L	4775JJ2008A
281D	COVER,HINGE	3550JJ2043A
281F	DECO,DRAIN	3806JJ2020D
281G	COVER,HINGE	3550JJ2044A
281H	HINGE ASSEMBLY,L	4775JJ2011A
282B	HINGE ASSEMBLY,C	4775JJ8002C
282E	CAP,HINGE	5006JJ2001F
282F	DECO,DUCT	3806JL2006E
282H	CAP,HINGE	5006JJ3004E
283B	HINGE,L	4774JJ3001A
284D	SCREW,DRAWING	1STZJA3004K
285A	GUIDE ASSEMBLY,RAIL	4975JJ2007G
286A	BUSH	4984JJ3003A
286A	BUSH	4984JJ3003A
301A	EVAPORATOR ASSEMBLY	5421JJ1001B
304A	COVER ASSEMBLY,BACK-M/C	3551JJ2008B
305B	ROLLER	4580JJ3001A
305B	ROLLER	4580JJ3001A
305C	PIN,DRAWING	4J04238A
305C	PIN,DRAWING	4J04238A
307A	COMPRESSOR,SET ASSEMBLY	2521C-A5725
308A	P.T.C ASSEMBLY	6748C-0004D
309A	O.L.P	6750CR0004S
310A	COVER,P.T.C	3550JA2042A
312A	RUBBER,SEAT	5040JA3031A
313A	RUBBER,SEAT	5040JJ3004A
314A	STOPPER,COMP	4620JA3009A
315A	COMP BASE ASSEMBLY,STD	3103JJ1001J
317A	DRIER ASSEMBLY	5851JJ2002B
318A	HOLDER,DRIER	4930JJ3002A
319A	TRAY,DRIP	3390JJ0003A
319C	GUIDE,FAN	4974JJ1009A
319E	BRACKET,MOTOR	4810JJ2005A
323B	CONDENSER ASSEMBLY,WIRE	5403JJ1007A
327A	CAP,DRAIN PIPE	5006JA3034A
328A	RUBBER,DAMPING	4J03020A
328B	RUBBER,DAMPING	4J04328A
328B	RUBBER,DAMPING	4J04328A
329A	FAN ASSEMBLY	5901JJ1005A
329C	FAN ASSEMBLY	5901JJ1004B
332A	GRILLE ASSEMBLY,FAN	3531JJ1004A
401A	CONTROLLER ASSEMBLY(CIRC)	6615JB2005C
403A	SWITCH,MICRO	6600JB3001B
404A	MOTOR ASSEMBLY,REF FAN	4681JK1004A
405A	BRACKET ASSEMBLY,MOTOR	4811JJ2002A
405C	RUBBER,MOTOR-F	5040JA2009B
405F	RUBBER,MOTOR-F	5040JA2004B
406B	SWITCH,[PUSH]	6600JB1004A
406C	LEVER,DISPENSER	4510JJ3001A
409B	LAMP,[INCANDESCENT]	6912JK2002C
409D	REFLECTOR,LAMP	3034JJ1002B
410A	SOCKET ASSEMBLY,LAMP	6621JK2002D
410B	BRACKET ASSEMBLY,DOOR	4811JJ2004B
410G	CAPACITOR,DRAWING	0CZZJB2003H
411A	POWER CORD ASSEMBLY	6411JK1006A
418A	HEATER,SHEATH	5300JB1100J
420A	MOTOR(MECH),COOLING	4680JK1001B
501A	PWB(PCB) ASSEMBLY,MAIN	6871JB1213A
501B	PWB(PCB) ASSEMBLY,DISPLAY	6871JB3008A
501F	COVER,PWB	3550JJ1042B
503C	PWB(PCB) ASSEMBLY,DISPLAY	6871JB2046A
503D	CASE,DISPLAY	3110JJ1005A
503E	COVER,DISPLAY	3550JJ2032A
503G	DECO,CONTROL	3806JL1039A
600A	ICE MAKER ASSEMBLY,KIT	5989JA0002A
602A	HOLDER,BRACKET	4930JA3037A
610A	COVER,SENSOR	3550JJ2020A
611A	FILTER ASSEMBLY,WATER	5231JA2006A
611B	FILTER(MECH),HEAD	5230JA2003A
611C	COVER,FILTER	3550JL1008B
611D	COVER,FILTER	3550JJ2028A
615A	TANK ASSEMBLY,WATER	4839JJ2003A
616A	TUBE,INJECT	5210JJ2001A
616B	TUBE,PE	5210JA3005N
616D	TUBE,PE	5210JA3004M
616E	TUBE,PE	5210JA3005N
616F	TUBE,PE	5210JA3004B
616G	TUBE,PE	5210JA3005P
618A	TUBE,INJECT	5210JJ3005B
619A	VALVE,WATER	5220JA2013A
619B	COVER,VALVE	3550JJ2024A
619C	VALVE ASSEMBLY,WATER	5221JA2011A
621B	CONNECTOR (MECH),TUBE	4932JA3009A
621B	CONNECTOR (MECH),TUBE	4932JA3009A
622A	TUBE,INLET	5210JJ3002A
623A	CAP,COVER	5006JJ2004A
623B	CAP,COVER	5006JJ2003A
623C	BAND (MECH)	4770JA3001A
623C	BAND (MECH)	4770JA3001A
625A	COVER,TUBE	3550JJ2034A
627A	HOLDER,PIPE	4930JA3054A
627B	HOLDER,BRACKET	4930JA3091A
627B	HOLDER,BRACKET	4930JA3091A
627B	HOLDER,BRACKET	4930JA3091A
627B	HOLDER,BRACKET	4930JA3091A
627B	HOLDER,BRACKET	4930JA3091A
628B	VALVE ASSEMBLY,WATER	5221JJ2002A
628C	VALVE,WATER	5220JB2001A
628D	COVER,VALVE	3550JJ2058A
628E	COVER,VALVE	3550JJ2059A
628F	TUBE,PE	5210JA3005B
628G	HOLDER,PIPE	4930JA3087A
629A	TANK,WATER	4838JJ1003A
629B	CONNECTOR (MECH),TUBE	4932JA3009B
629C	TUBE,PE	5210JA3004P
700B	HANDLE ASSEMBLY,F	3651JJ2010G
700C	HANDLE ASSEMBLY,R	3651JJ2017A
903A	COVER,LOWER	3550JJ0006C
903B	HOLDER,COVER LOWER	4930JJ2021A
903D	SENSOR	6500JK1003A
903E	SENSOR	6500JK1004A
B01	SCREW,DRAWING	1STZJA3004F
S01	SCREW,DRAWING	1SZZJJ3010A
S03	SCREW,DRAWING	1SZZJJ3018A
S07	SCREW,DRAWING	4000W4A003A
S22	SCREW,DRAWING	3J05696C
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S28	SCREW,DRAWING	3J05696W
S38	SCREW,DRAWING	4J00415D

#EV#

LRDC22744SW

LOC	DESCRIPTION	PART NO.
103A	HANDLE,BACK	3650JJ2003E
103B	HANDLE,BACK	3650JJ2003A
103C	COVER ASSEMBLY,LOWER	3551JJ1015B
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
105A	DRAIN ASSEMBLY,PIPE-Z	5251JA3003B
105F	SKIRT,LOWER	5070JJ3002A
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A
106B	WASHER,DRAWING	4J00382C
113C	SPRING,W	4970JJ3004A
120B	DUCT ASSEMBLY,MULTI	5209JJ1002A
120H	COVER,LED	3550JJ3003A
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A
128B	GUIDE ASSEMBLY,RAIL	4975JJ2002B
128C	GUIDE ASSEMBLY,RAIL	4975JJ2003C
128G	LINK	4520JJ2001A
128M	GUIDE,AIR	4974JJ2011A
131A	BANK ASSEMBLY,ICE	5075JJ1001B
135C	COVER,GRILLE FAN	3550JJ2030A
136A	TRAY ASSEMBLY,DRAWER	3391JJ1011B
136B	TRAY,DRAWER	3390JJ1087A
136F	TRAY ASSEMBLY,DRAWER	3391JJ1033B
140A	SHELF ASSEMBLY,R	5027JJ1014D
140B	SHELF ASSEMBLY,R	5027JJ1005A
140F	SHELF ASSEMBLY,NET	5027JJ2005F
141A	SHELF ASSEMBLY,R	5027JJ1014B
141B	SHELF ASSEMBLY,R	5027JJ1005A
141C	SHELF ASSEMBLY,NET	5027JJ2005C
141D	SHELF ASSEMBLY,R	5027JJ2011B
141E	SHELF ASSEMBLY,NET	5027JJ2005D
142A	SHELF ASSEMBLY,R	5027JJ1013U
142B	SHELF ASSEMBLY,R	5027JJ1006A
142D	SHELF,NET	5026JJ2001L
142E	SHELF,NET	5026JJ2001M
145A	HOLDER,SHELF	4930JJ2003A
145B	HOLDER,SHELF	4930JJ2004A
145D	GUIDE,RAIL	4974JJ1012A
145G	GUIDE ASSEMBLY,RAIL	4975JJ2005H
146D	CAN,SERVER	5044JJ1001A
147A	BANK,DAIRY	5074JJ1005A
147B	TRAY,EGG	3390JJ1014A
147C	COVER,BANK	3550JJ1017A
147D	TRAY,BUTTER	3390JJ2003A
149C	SHELF ASSEMBLY,R	5027JJ2010B
149E	SHELF ASSEMBLY,R	5027JJ2009B
151A	TRAY ASSEMBLY,VEGETABLE	3391JJ1019E
151C	KNOB,SHUTTER	4940JJ2003B
154A	COVER,T/V	3550JJ1033A
155B	SUPPORTER ASSEMBLY,COVER-T/V	4981JJ2001A
158A	COVER,LAMP	3550JJ1040A
158E	COVER,LAMP	3550JJ1051A
160B	DECO,TRAY	3806JL2005D
161A	COVER,TRAY	3550JJ2026A
167B	GLASS,SHELF	4890JL1002K
168A	COVER,MAGIC ROOM	3550JJ1035A
170A	TRAY ASSEMBLY,MEAT	3391JJ2004K
200A	DOOR ASSEMBLY,F	3581JJ8018K
201A	DOOR FOAM ASSEMBLY,F	5433JJ0058N
203A	GASKET ASSEMBLY,DOOR	4987JJ1004A
205A	BASKET,DOOR	5004JJ1042B
205B	BASKET,TILT	5004JJ2005B
205C	BASKET,TILT	5004JJ2005A
210A	STOPPER,DOOR	4620JJ2005A
210B	STOPPER,DOOR	4620JJ2008A
212A	HANDLE,F	3650JJ1035B
212G	MARK	3846JD1007B
230A	DOOR ASSEMBLY,R	3581JJ8025B
231A	DOOR FOAM ASSEMBLY,R	5433JJ0033A
233A	GASKET ASSEMBLY,DOOR	4987JJ1004B
237A	GUIDE,BOTTLE	4974JJ2012A
237C	GUIDE,DRAWER	4974JJ1021A
241A	COVER,TRAY	3550JL2003H
241B	BASKET,DOOR	5004JJ1021A
241C	BASKET ASSEMBLY,DOOR	5005JJ2017A
241D	BASKET ASSEMBLY,DOOR	5005JJ2020A
241E	BASKET ASSEMBLY,DOOR	5005JJ2018A
243A	STOPPER,DOOR	4620JJ3006A
244A	HANDLE,R	3650JJ1034K
244B	HOLDER,HANDLE	4930JJ2023B
244C	HOLDER,HANDLE	4930JJ2022B
244J	STOPPER,HANDLE	4620JJ3007A
245A	HOLDER,HANDLE	4930JJ2019A
245B	HOLDER,HANDLE	4930JJ2020A
248E	DECO,TRAY	3806JJ2035A
248F	SUPPORTER,HOLDER	4980JJ2005A
248N	RAIL ASSEMBLY,SLIDE	5219JJ2002A
248P	RAIL ASSEMBLY,SLIDE	5219JJ2002B
262A	HOLDER,BRACKET	4930JA3093A
262A	HOLDER,BRACKET	4930JA3093A
262A	HOLDER,BRACKET	4930JA3093A
262B	HOLDER,BRACKET	4930JA3093B
262D	CLIP	4004JA3002A
262D	CLIP	4004JA3002A
276B	BUTTON,LEVER	5020JJ3001A
278C	LEVER,SHUTTER	4510JJ2002A
279B	COVER,DISPENSER	3550JL1005A
279C	DECO,DISPENSER	3806JJ2021A
281A	COVER,HINGE	3550JJ1039A
281B	HINGE ASSEMBLY,U	4775JJ2005A
281C	HINGE ASSEMBLY,L	4775JJ2008A
281D	COVER,HINGE	3550JJ2043A
281F	DECO,DRAIN	3806JJ2020A
281G	COVER,HINGE	3550JJ2044A
281H	HINGE ASSEMBLY,L	4775JJ2011A
282B	HINGE ASSEMBLY,C	4775JJ8002A
282E	CAP,HINGE	5006JJ2001A
282F	DECO,DUCT	3806JL2006E
282H	CAP,HINGE	5006JJ3004A
283B	HINGE,L	4774JJ3001A
284D	SCREW,DRAWING	1STZJA3004K
285A	GUIDE ASSEMBLY,RAIL	4975JJ2007G
286A	BUSH	4984JJ3003A
286A	BUSH	4984JJ3003A
301A	EVAPORATOR ASSEMBLY	5421JJ1001B
304A	COVER ASSEMBLY,BACK-M/C	3551JJ2008B
305B	ROLLER	4580JJ3001A
305B	ROLLER	4580JJ3001A
305C	PIN,DRAWING	4J04238A
305C	PIN,DRAWING	4J04238A
307A	COMPRESSOR,SET ASSEMBLY	2521C-A5725
308A	P.T.C ASSEMBLY	6748C-0004D
309A	O.L.P	6750CR0004S
310A	COVER,P.T.C	3550JA2042A
312A	RUBBER,SEAT	5040JA3031A
313A	RUBBER,SEAT	5040JJ3004A
314A	STOPPER,COMP	4620JA3009A
315A	COMP BASE ASSEMBLY,STD	3103JJ1001J
317A	DRIER ASSEMBLY	5851JJ2002B
318A	HOLDER,DRIER	4930JJ3002A
319A	TRAY,DRIP	3390JJ0003A
319C	GUIDE,FAN	4974JJ1009A
319E	BRACKET,MOTOR	4810JJ2005A
323B	CONDENSER ASSEMBLY,WIRE	5403JJ1007A
327A	CAP,DRAIN PIPE	5006JA3034A
328A	RUBBER,DAMPING	4J03020A
328B	RUBBER,DAMPING	4J04328A
328B	RUBBER,DAMPING	4J04328A
329A	FAN ASSEMBLY	5901JJ1005A
329C	FAN ASSEMBLY	5901JJ1004B
332A	GRILLE ASSEMBLY,FAN	3531JJ1004A
401A	CONTROLLER ASSEMBLY(CIRC)	6615JB2005C
403A	SWITCH,MICRO	6600JB3001B
404A	MOTOR ASSEMBLY,REF FAN	4681JK1004A
405A	BRACKET ASSEMBLY,MOTOR	4811JJ2002A
405C	RUBBER,MOTOR-F	5040JA2009B
405F	RUBBER,MOTOR-F	5040JA2004B
406B	SWITCH,[PUSH]	6600JB1004A
406C	LEVER,DISPENSER	4510JJ3001A
409B	LAMP,[INCANDESCENT]	6912JK2002C
409D	REFLECTOR,LAMP	3034JJ1002B
410A	SOCKET ASSEMBLY,LAMP	6621JK2002D
410B	BRACKET ASSEMBLY,DOOR	4811JJ2004B
410G	CAPACITOR,DRAWING	0CZZJB2003H
411A	POWER CORD ASSEMBLY	6411JK1006A
418A	HEATER,SHEATH	5300JB1100J
420A	MOTOR(MECH),COOLING	4680JK1001B
501A	PWB(PCB) ASSEMBLY,MAIN	6871JB1213A
501B	PWB(PCB) ASSEMBLY,DISPLAY	6871JB3008A
501F	COVER,PWB	3550JJ1042B
503C	PWB(PCB) ASSEMBLY,DISPLAY	6871JB2046A
503D	CASE,DISPLAY	3110JJ1005A
503E	COVER,DISPLAY	3550JJ2032A
503G	DECO,CONTROL	3806JL1039A
600A	ICE MAKER ASSEMBLY,KIT	5989JA0002A
602A	HOLDER,BRACKET	4930JA3037A
610A	COVER,SENSOR	3550JJ2020A
611A	FILTER ASSEMBLY,WATER	5231JA2006A
611B	FILTER(MECH),HEAD	5230JA2003A
611C	COVER,FILTER	3550JL1008B
611D	COVER,FILTER	3550JJ2028A
615A	TANK ASSEMBLY,WATER	4839JJ2003A
616A	TUBE,INJECT	5210JJ2001A
616B	TUBE,PE	5210JA3005N
616D	TUBE,PE	5210JA3004M
616E	TUBE,PE	5210JA3005N
616F	TUBE,PE	5210JA3004B
616G	TUBE,PE	5210JA3005P
618A	TUBE,INJECT	5210JJ3005B
619A	VALVE,WATER	5220JA2013A
619B	COVER,VALVE	3550JJ2024A
619C	VALVE ASSEMBLY,WATER	5221JA2011A
621B	CONNECTOR (MECH),TUBE	4932JA3009A
621B	CONNECTOR (MECH),TUBE	4932JA3009A
622A	TUBE,INLET	5210JJ3002A
623A	CAP,COVER	5006JJ2004A
623B	CAP,COVER	5006JJ2003A
623C	BAND (MECH)	4770JA3001A
623C	BAND (MECH)	4770JA3001A
625A	COVER,TUBE	3550JJ2034A
627A	HOLDER,PIPE	4930JA3054A
627B	HOLDER,BRACKET	4930JA3091A
627B	HOLDER,BRACKET	4930JA3091A
627B	HOLDER,BRACKET	4930JA3091A
627B	HOLDER,BRACKET	4930JA3091A
627B	HOLDER,BRACKET	4930JA3091A
628B	VALVE ASSEMBLY,WATER	5221JJ2002A
628C	VALVE,WATER	5220JB2001A
628D	COVER,VALVE	3550JJ2058A
628E	COVER,VALVE	3550JJ2059A
628F	TUBE,PE	5210JA3005B
628G	HOLDER,PIPE	4930JA3087A
629A	TANK,WATER	4838JJ1003A
629B	CONNECTOR (MECH),TUBE	4932JA3009B
629C	TUBE,PE	5210JA3004P
700B	HANDLE ASSEMBLY,F	3651JJ2010H
700C	HANDLE ASSEMBLY,R	3651JJ2017B
903A	COVER,LOWER	3550JJ0006A
903B	HOLDER,COVER LOWER	4930JJ2021A
903D	SENSOR	6500JK1003A
903E	SENSOR	6500JK1004A
B01	SCREW,DRAWING	1STZJA3004F
S01	SCREW,DRAWING	1SZZJJ3010A
S03	SCREW,DRAWING	1SZZJJ3018A
S07	SCREW,DRAWING	4000W4A003A
S22	SCREW,DRAWING	3J05696C
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S28	SCREW,DRAWING	3J05696W
S38	SCREW,DRAWING	4J00415D

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LOC	DESCRIPTION	PART NO.
103A	HANDLE,BACK	3650JJ2003H
103B	HANDLE,BACK	3650JJ2003D
103C	COVER ASSEMBLY,LOWER	3551JJ1015H
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
105A	DRAIN ASSEMBLY,PIPE-Z	5251JA3003B
105F	SKIRT,LOWER	5070JJ3002A
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A
106B	WASHER,DRAWING	4J00382C
113C	SPRING,W	4970JJ3004A
120B	DUCT ASSEMBLY,MULTI	5209JJ1002A
120H	COVER,LED	3550JJ3003A
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A
128B	GUIDE ASSEMBLY,RAIL	4975JJ2002B
128C	GUIDE ASSEMBLY,RAIL	4975JJ2003C
128G	LINK	4520JJ2001A
128M	GUIDE,AIR	4974JJ2011A
131A	BANK ASSEMBLY,ICE	5075JJ1001B
135C	COVER,GRILLE FAN	3550JJ2030A
136A	TRAY ASSEMBLY,DRAWER	3391JJ1011B
136B	TRAY,DRAWER	3390JJ1087A
136F	TRAY ASSEMBLY,DRAWER	3391JJ1033B
140A	SHELF ASSEMBLY,R	5027JJ1014D
140B	SHELF ASSEMBLY,R	5027JJ1005A
140F	SHELF ASSEMBLY,NET	5027JJ2005F
141A	SHELF ASSEMBLY,R	5027JJ1014B
141B	SHELF ASSEMBLY,R	5027JJ1005A
141C	SHELF ASSEMBLY,NET	5027JJ2005C
141D	SHELF ASSEMBLY,R	5027JJ2011B
141E	SHELF ASSEMBLY,NET	5027JJ2005D
142A	SHELF ASSEMBLY,R	5027JJ1013U
142B	SHELF ASSEMBLY,R	5027JJ1006A
142D	SHELF,NET	5026JJ2001L
142E	SHELF,NET	5026JJ2001M
145A	HOLDER,SHELF	4930JJ2003A
145B	HOLDER,SHELF	4930JJ2004A
145D	GUIDE,RAIL	4974JJ1012A
145G	GUIDE ASSEMBLY,RAIL	4975JJ2005H
146D	CAN,SERVER	5044JJ1001A
147A	BANK,DAIRY	5074JJ1005A
147B	TRAY,EGG	3390JJ1014A
147C	COVER,BANK	3550JJ1017A
147D	TRAY,BUTTER	3390JJ2003A
149C	SHELF ASSEMBLY,R	5027JJ2010B
149E	SHELF ASSEMBLY,R	5027JJ2009B
151A	TRAY ASSEMBLY,VEGETABLE	3391JJ1019E
151C	KNOB,SHUTTER	4940JJ2003B
154A	COVER,T/V	3550JJ1033A
155B	SUPPORTER ASSEMBLY,COVER-T/V	4981JJ2001A
158A	COVER,LAMP	3550JJ1040A
158E	COVER,LAMP	3550JJ1051A
160B	DECO,TRAY	3806JL2005D
161A	COVER,TRAY	3550JJ2026A
167B	GLASS,SHELF	4890JL1002K
168A	COVER,MAGIC ROOM	3550JJ1035A
170A	TRAY ASSEMBLY,MEAT	3391JJ2004K
200A	DOOR ASSEMBLY,F	3581JJ8018J
201A	DOOR FOAM ASSEMBLY,F	5433JJ0058P
203A	GASKET ASSEMBLY,DOOR	4987JJ1004A
205A	BASKET,DOOR	5004JJ1042B
205B	BASKET,TILT	5004JJ2005B
205C	BASKET,TILT	5004JJ2005A
210A	STOPPER,DOOR	4620JJ2005A
210B	STOPPER,DOOR	4620JJ2008A
212A	HANDLE,F	3650JJ1035A
212G	MARK	3846JD1007B
230A	DOOR ASSEMBLY,R	3581JJ8025D
231A	DOOR FOAM ASSEMBLY,R	5433JJ0033E
233A	GASKET ASSEMBLY,DOOR	4987JJ1004B
237A	GUIDE,BOTTLE	4974JJ2012A
237C	GUIDE,DRAWER	4974JJ1021A
241A	COVER,TRAY	3550JL2003H
241B	BASKET,DOOR	5004JJ1021A
241C	BASKET ASSEMBLY,DOOR	5005JJ2017A
241D	BASKET ASSEMBLY,DOOR	5005JJ2020A
241E	BASKET ASSEMBLY,DOOR	5005JJ2018A
243A	STOPPER,DOOR	4620JJ3006D
244A	HANDLE,R	3650JJ1034E
244B	HOLDER,HANDLE	4930JJ2023A
244C	HOLDER,HANDLE	4930JJ2022A
244J	STOPPER,HANDLE	4620JJ3007A
245A	HOLDER,HANDLE	4930JJ2019B
245B	HOLDER,HANDLE	4930JJ2020B
248E	DECO,TRAY	3806JJ2035A
248F	SUPPORTER,HOLDER	4980JJ2005A
248N	RAIL ASSEMBLY,SLIDE	5219JJ2002A
248P	RAIL ASSEMBLY,SLIDE	5219JJ2002B
262A	HOLDER,BRACKET	4930JA3093A
262A	HOLDER,BRACKET	4930JA3093A
262B	HOLDER,BRACKET	4930JA3093B
262D	CLIP	4930JA3093A
262D	CLIP	4004JA3002A
262D	CLIP	4004JA3002A
276B	BUTTON,LEVER	5020JJ3001C
278C	LEVER,SHUTTER	4510JJ2002A
279B	COVER,DISPENSER	3550JL1005D
279C	DECO,DISPENSER	3806JJ2021D
281A	COVER,HINGE	3550JJ1039D
281B	HINGE ASSEMBLY,U	4775JJ2005A
281C	HINGE ASSEMBLY,L	4775JJ2008A
281D	COVER,HINGE	3550JJ2043A
281F	DECO,DRAIN	3806JJ2020D
281G	COVER,HINGE	3550JJ2044A
281H	HINGE ASSEMBLY,L	4775JJ2011A
282B	HINGE ASSEMBLY,C	4775JJ8002C
282E	CAP,HINGE	5006JJ2001G
282F	DECO,DUCT	3806JL2006E
282H	CAP,HINGE	5006JJ3004F
283B	HINGE,L	4774JJ3001A
284D	SCREW,DRAWING	1STZJA3004K
285A	GUIDE ASSEMBLY,RAIL	4975JJ2007G
286A	BUSH	4984JJ3003A
301A	EVAPORATOR ASSEMBLY	5421JJ1001B
304A	COVER ASSEMBLY,BACK-M/C	3551JJ2008B
305B	ROLLER	4580JJ3001A
305B	ROLLER	4580JJ3001A
305C	PIN,DRAWING	4J04238A
305C	PIN,DRAWING	4J04238A
307A	COMPRESSOR,SET ASSEMBLY	2521C-A5725
308A	P.T.C ASSEMBLY	6748C-0004D
309A	O.L.P	6750CR0004S
310A	COVER,P.T.C	3550JA2042A
312A	RUBBER,SEAT	5040JA3031A
313A	RUBBER,SEAT	5040JJ3004A
314A	STOPPER,COMP	4620JA3009A
315A	COMP BASE ASSEMBLY,STD	3103JJ1001J
317A	DRIER ASSEMBLY	5851JJ2002B
318A	HOLDER,DRIER	4930JJ3002A
319A	TRAY,DRIP	3390JJ0003A
319C	GUIDE,FAN	4974JJ1009A
319E	BRACKET,MOTOR	4810JJ2005A
323B	CONDENSER ASSEMBLY,WIRE	5403JJ1007A
327A	CAP,DRAIN PIPE	5006JA3034A
328A	RUBBER,DAMPING	4J03020A
328B	RUBBER,DAMPING	4J04328A
328B	RUBBER,DAMPING	4J04328A
329A	FAN ASSEMBLY	5901JJ1005A
329C	FAN ASSEMBLY	5901JJ1004B
332A	GRILLE ASSEMBLY,FAN	3531JJ1004A
401A	CONTROLLER ASSEMBLY(CIRC)	6615JB2005C
403A	SWITCH,MICRO	6600JB3001B
404A	MOTOR ASSEMBLY,REF FAN	4681JK1004A
405A	BRACKET ASSEMBLY,MOTOR	4811JJ2002A
405C	RUBBER,MOTOR-F	5040JA2009B
405F	RUBBER,MOTOR-F	5040JA2004B
406B	SWITCH,[PUSH]	6600JB1004A
406C	LEVER,DISPENSER	4510JJ3001A
409B	LAMP,[INCANDESCENT]	6912JK2002C
409D	REFLECTOR,LAMP	3034JJ1002B
410A	SOCKET ASSEMBLY,LAMP	6621JK2002D
410B	BRACKET ASSEMBLY,DOOR	4811JJ2004B
410G	CAPACITOR,DRAWING	0CZZJB2003H
411A	POWER CORD ASSEMBLY	6411JK1006A
418A	HEATER,SHEATH	5300JB1100J
420A	MOTOR(MECH),COOLING	4680JK1001B
501A	PWB(PCB) ASSEMBLY,MAIN	6871JB1213A
501B	PWB(PCB) ASSEMBLY,DISPLAY	6871JB3008A
501F	COVER,PWB	3550JJ1042B
503C	PWB(PCB) ASSEMBLY,DISPLAY	6871JB2046A
503D	CASE,DISPLAY	3110JJ1005A
503E	COVER,DISPLAY	3550JJ2032A
503G	DECO,CONTROL	3806JL1039A
600A	ICE MAKER ASSEMBLY,KIT	5989JA0002A
602A	HOLDER,BRACKET	4930JA3037A
610A	COVER,SENSOR	3550JJ2020A
611A	FILTER ASSEMBLY,WATER	5231JA2006A
611B	FILTER(MECH),HEAD	5230JA2003A
611C	COVER,FILTER	3550JL1008B
611D	COVER,FILTER	3550JJ2028A
615A	TANK ASSEMBLY,WATER	4839JJ2003A
616A	TUBE,INJECT	5210JJ2001A
616B	TUBE,PE	5210JA3005N
616D	TUBE,PE	5210JA3004M
616E	TUBE,PE	5210JA3005N
616F	TUBE,PE	5210JA3004B
616G	TUBE,PE	5210JA3005P
618A	TUBE,INJECT	5210JJ3005B
619A	VALVE,WATER	5220JA2013A
619B	COVER,VALVE	3550JJ2024A
619C	VALVE ASSEMBLY,WATER	5221JA2011A
621B	CONNECTOR (MECH),TUBE	4932JA3009A
621B	CONNECTOR (MECH),TUBE	4932JA3009A
622A	TUBE,INLET	5210JJ3002A
623A	CAP,COVER	5006JJ2004A
623B	CAP,COVER	5006JJ2003A
623C	BAND (MECH)	4770JA3001A
623C	BAND (MECH)	4770JA3001A
625A	COVER,TUBE	3550JJ2034A
627A	HOLDER,PIPE	4930JA3054A
627B	HOLDER,BRACKET	4930JA3091A
627B	HOLDER,BRACKET	4930JA3091A
627B	HOLDER,BRACKET	4930JA3091A
627B	HOLDER,BRACKET	4930JA3091A
627B	HOLDER,BRACKET	4930JA3091A
628B	VALVE ASSEMBLY,WATER	5221JJ2002A
628C	VALVE,WATER	5220JB2001A
628D	COVER,VALVE	3550JJ2058A
628E	COVER,VALVE	3550JJ2059A
628F	TUBE,PE	5210JA3005B
628G	HOLDER,PIPE	4930JA3087A
629A	TANK,WATER	4838JJ1003A
629B	CONNECTOR (MECH),TUBE	4932JA3009B
629C	TUBE,PE	5210JA3004P
700B	HANDLE ASSEMBLY,F	3651JJ2010G
700C	HANDLE ASSEMBLY,R	3651JJ2017A
903A	COVER,LOWER	3550JJ0006D
903B	HOLDER,COVER LOWER	4930JJ2021A
903D	SENSOR	6500JK1003A
903E	SENSOR	6500JK1004A
B01	SCREW,DRAWING	1STZJA3004F
S01	SCREW,DRAWING	1SZZJJ3010A
S03	SCREW,DRAWING	1SZZJJ3018A
S07	SCREW,DRAWING	4000W4A003A
S22	SCREW,DRAWING	3J05696C
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S28	SCREW,DRAWING	3J05696W
S38	SCREW,DRAWING	4J00415D

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LOC	DESCRIPTION	PART NO.
103A	HANDLE,BACK	3650JJ2003M
103B	HANDLE,BACK	3650JJ2003L
103C	COVER ASSEMBLY,LOWER	3551JJ1015F
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
105A	DRAIN ASSEMBLY,PIPE-Z	5251JA3003B
105F	SKIRT,LOWER	5070JJ3002A
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A
106B	WASHER,DRAWING	4J00382C
120B	DUCT ASSEMBLY,MULTI	5209JJ1002A
125A	TRAY ASSEMBLY,ICE	3391JJ1009B
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A
128B	GUIDE ASSEMBLY,RAIL	4975JJ2002B
128C	GUIDE ASSEMBLY,RAIL	4975JJ2003C
128G	LINK	4520JJ2001A
128M	GUIDE,AIR	4974JJ2011A
131A	BANK ASSEMBLY,ICE	5075JJ1001B
135C	COVER,GRILLE FAN	3550JJ2030A
136A	TRAY ASSEMBLY,DRAWER	3391JJ1011B
136B	TRAY,DRAWER	3390JJ1087A
136F	TRAY ASSEMBLY,DRAWER	3391JJ1033B
140A	SHELF ASSEMBLY,R	5027JJ1014D
140B	SHELF ASSEMBLY,R	5027JJ1005A
140F	SHELF ASSEMBLY,NET	5027JJ2005F
141A	SHELF ASSEMBLY,R	5027JJ1014B
141B	SHELF ASSEMBLY,R	5027JJ1005A
141C	SHELF ASSEMBLY,NET	5027JJ2005C
141D	SHELF ASSEMBLY,R	5027JJ2011B
141E	SHELF ASSEMBLY,NET	5027JJ2005D
142A	SHELF ASSEMBLY,R	5027JJ1013U
142B	SHELF ASSEMBLY,R	5027JJ1006A
142D	SHELF,NET	5026JJ2001L
142E	SHELF,NET	5026JJ2001M
145A	HOLDER,SHELF	4930JJ2003A
145B	HOLDER,SHELF	4930JJ2004A
145D	GUIDE,RAIL	4974JJ1012A
145G	GUIDE ASSEMBLY,RAIL	4975JJ2005H
146D	CAN,SERVER	5044JJ1001A
147A	BANK,DAIRY	5074JJ1005A
147B	TRAY,EGG	3390JJ1014A
147C	COVER,BANK	3550JJ1017A
147D	TRAY,BUTTER	3390JJ2003A
149C	SHELF ASSEMBLY,R	5027JJ2010B
149E	SHELF ASSEMBLY,R	5027JJ2009B
151A	TRAY ASSEMBLY,VEGETABLE	3391JJ1019E
151C	KNOB,SHUTTER	4940JJ2003B
154A	COVER,T/V	3550JJ1033A
155B	SUPPORTER ASSEMBLY,COVER-T/V	4981JJ2001A
158A	COVER,LAMP	3550JJ1040A
158E	COVER,LAMP	3550JJ1051A
160B	DECO,TRAY	3806JL2005D
161A	COVER,TRAY	3550JJ2026A
167B	GLASS,SHELF	4890JL1002K
168A	COVER,MAGIC ROOM	3550JJ1035A
170A	TRAY ASSEMBLY,MEAT	3391JJ2004K
200A	DOOR ASSEMBLY,F	3581JJ8018H
201A	DOOR FOAM ASSEMBLY,F	5433JJ0058M
203A	GASKET ASSEMBLY,DOOR	4987JJ1004E
205A	BASKET,DOOR	5004JJ1042B
205B	BASKET,TILT	5004JJ2005B
205C	BASKET,TILT	5004JJ2005A
210A	STOPPER,DOOR	4620JJ2005A
210B	STOPPER,DOOR	4620JJ2008A
212A	HANDLE,F	3650JJ1035A
212G	MARK	3846JD1007B
230A	DOOR ASSEMBLY,R	3581JJ8024H
231A	DOOR FOAM ASSEMBLY,R	5433JJ0019T
233A	GASKET ASSEMBLY,DOOR	4987JJ1004F
237A	GUIDE,BOTTLE	4974JJ2012A
237C	GUIDE,DRAWER	4974JJ1021A
241A	COVER,TRAY	3550JL2003H
241B	BASKET,DOOR	5004JJ1021A
241C	BASKET ASSEMBLY,DOOR	5005JJ2017A
241D	BASKET ASSEMBLY,DOOR	5005JJ2020A
241E	BASKET ASSEMBLY,DOOR	5005JJ2018A
243A	STOPPER,DOOR	4620JJ3006C
244A	HANDLE,R	3650JJ1034E
244B	HOLDER,HANDLE	4930JJ2023A
244C	HOLDER,HANDLE	4930JJ2022A
244J	STOPPER,HANDLE	4620JJ3007A
245A	HOLDER,HANDLE	4930JJ2019B

LOC	DESCRIPTION	PART NO.
245B	HOLDER,HANDLE	4930JJ2020B
248E	DECO,TRAY	3806JJ2035A
248F	SUPPORTER,HOLDER	4980JJ2005A
248N	RAIL ASSEMBLY,SLIDE	5219JJ2002A
248P	RAIL ASSEMBLY,SLIDE	5219JJ2002B
249G	GUIDE,RAIL	4974JJ1011A
278C	LEVER,SHUTTER	4510JJ2002A
281A	COVER,HINGE	3550JJ2013C
281B	HINGE ASSEMBLY,U	4775JJ2003B
281C	HINGE ASSEMBLY,L	4775JJ2008A
281D	COVER,HINGE	3550JJ2043A
281G	COVER,HINGE	3550JJ2044A
281H	HINGE ASSEMBLY,L	4775JJ2011A
282B	HINGE ASSEMBLY,C	4775JJ8002C
282E	CAP,HINGE	5006JJ2001F
282F	DECO,DUCT	3806JL2006E
282H	CAP,HINGE	5006JJ3004E
283B	HINGE,L	4774JJ3001A
284D	SCREW,DRAWING	1STZJA3004K
285A	GUIDE ASSEMBLY,RAIL	4975JJ2007G
286A	BUSH	4984JJ3003A
286A	BUSH	4984JJ3003A
301A	EVAPORATOR ASSEMBLY	5421JJ1001B
304A	COVER ASSEMBLY,BACK-M/C	3551JJ2008B
305B	ROLLER	4580JJ3001A
305B	ROLLER	4580JJ3001A
305C	PIN,DRAWING	4J04238A
305C	PIN,DRAWING	4J04238A
307A	COMPRESSOR,SET ASSEMBLY	2521JJ8004A
308A	P.T.C ASSEMBLY	6748JJ8002A
309A	O.L.P	6750JJ8002A
310A	COVER,P.T.C	3550JJ8003A
312A	RUBBER,SEAT	5040JA3031A
313A	RUBBER,SEAT	5040JJ3004A
314A	STOPPER,COMP	4620JA3009A
315A	COMP BASE ASSEMBLY,STD	3103JJ1001J
317A	DRIER ASSEMBLY	5851JJ2002B
318A	HOLDER,DRIER	4930JJ3002A
319A	TRAY,DRIP	3390JJ0003A
319C	GUIDE,FAN	4974JJ1009A
319E	BRACKET,MOTOR	4810JJ2005A
323B	CONDENSER ASSEMBLY,WIRE	5403JJ1007A
327A	CAP,DRAIN PIPE	5006JA3034A
328A	RUBBER,DAMPING	4J03020A
328B	RUBBER,DAMPING	4J04328A
329A	FAN ASSEMBLY	5901JJ1005A
329C	FAN ASSEMBLY	5901JJ1004B
332A	GRILLE ASSEMBLY,FAN	3531JJ1004A
401A	CONTROLLER ASSEMBLY(CIRC)	6615JB2005C
404A	MOTOR ASSEMBLY,REF FAN	4681JK1004A
405A	BRACKET ASSEMBLY,MOTOR	4811JJ2002A
405C	RUBBER,MOTOR-F	5040JA2009B
405F	RUBBER,MOTOR-F	5040JA2004B
406B	SWITCH,[PUSH]	6600JB1004A
409B	LAMP,[INCANDESCENT]	6912JK2002C
409D	REFLECTOR,LAMP	3034JJ1002B
410A	SOCKET ASSEMBLY,LAMP	6621JK2002D
410B	BRACKET ASSEMBLY,DOOR	4811JJ2004B
410G	CAPACITOR,DRAWING	0CZZJB2003H
411A	POWER CORD ASSEMBLY	6411JK1006A
418A	HEATER,SHEATH	5300JB1100J
420A	MOTOR(MECH),COOLING	4680JK1001B
501A	PWB(PCB) ASSEMBLY,MAIN	6871JB1213B
501F	COVER,PWB	3550JJ1042B
503C	PWB(PCB) ASSEMBLY,DISPLAY	6871JB2046B
503D	CASE,DISPLAY	3110JJ1005A
503E	COVER,DISPLAY	3550JJ2032A
503G	DECO,CONTROL	3806JL1010A
602A	HOLDER,BRACKET	4930JA3037A
610A	COVER,SENSOR	3550JJ2020A
619B	COVER,VALVE	3550JJ2024A
625A	COVER,TUBE	3550JJ2036A
700B	HANDLE ASSEMBLY,F	3651JJ2010G
700C	HANDLE ASSEMBLY,R	3651JJ2017A
903A	COVER,LOWER	3550JJ0006C
903B	HOLDER,COVER LOWER	4930JJ2021A
903D	SENSOR	6500JK1003A
903E	SENSOR	6500JK1004A
B01	SCREW,DRAWING	1STZJA3004F
S01	SCREW,DRAWING	1SZZJJ3010A
S03	SCREW,DRAWING	1SZZJJ3018A
S07	SCREW,DRAWING	4000W4A003A
S22	SCREW,DRAWING	3J05696C
S24	SCREW,DRAWING	1SZZJA3011B
S28	SCREW,DRAWING	3J05696W
S38	SCREW,DRAWING	4J00415D

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LOC	DESCRIPTION	PART NO.
103A	HANDLE,BACK	3650JJ2003H
103B	HANDLE,BACK	3650JJ2003D
103C	COVER ASSEMBLY,LOWER	3551JJ1015H
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
105A	DRAIN ASSEMBLY,PIPE-Z	5251JA3003B
105F	SKIRT,LOWER	5070JJ3002A
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A
106B	WASHER,DRAWING	4J00382C
120B	DUCT ASSEMBLY,MULTI	5209JJ1002A
125A	TRAY ASSEMBLY,ICE	3391JJ1009B
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A
128B	GUIDE ASSEMBLY,RAIL	4975JJ2002B
128C	GUIDE ASSEMBLY,RAIL	4975JJ2003C
128G	LINK	4520JJ2001A
128M	GUIDE,AIR	4974JJ2011A
131A	BANK ASSEMBLY,ICE	5075JJ1001B
135C	COVER,GRILLE FAN	3550JJ2030A
136A	TRAY ASSEMBLY,DRAWER	3391JJ1011B
136B	TRAY,DRAWER	3390JJ1087A
136F	TRAY ASSEMBLY,DRAWER	3391JJ1033B
140A	SHELF ASSEMBLY,R	5027JJ1014D
140B	SHELF ASSEMBLY,R	5027JJ1005A
140F	SHELF ASSEMBLY,NET	5027JJ2005F
141A	SHELF ASSEMBLY,R	5027JJ1014B
141B	SHELF ASSEMBLY,R	5027JJ1005A
141C	SHELF ASSEMBLY,NET	5027JJ2005C
141D	SHELF ASSEMBLY,R	5027JJ2011B
141E	SHELF ASSEMBLY,NET	5027JJ2005D
142A	SHELF ASSEMBLY,R	5027JJ1013U
142B	SHELF ASSEMBLY,R	5027JJ1006A
142D	SHELF,NET	5026JJ2001L
142E	SHELF,NET	5026JJ2001M
145A	HOLDER,SHELF	4930JJ2003A
145B	HOLDER,SHELF	4930JJ2004A
145D	GUIDE,RAIL	4974JJ1012A
145G	GUIDE ASSEMBLY,RAIL	4975JJ2005H
146D	CAN,SERVER	5044JJ1001A
147A	BANK,DAIRY	5074JJ1005A
147B	TRAY,EGG	3390JJ1014A
147C	COVER,BANK	3550JJ1017A
147D	TRAY,BUTTER	3390JJ2003A
149C	SHELF ASSEMBLY,R	5027JJ2010B
149E	SHELF ASSEMBLY,R	5027JJ2009B
151A	TRAY ASSEMBLY,VEGETABLE	3391JJ1019E
151C	KNOB,SHUTTER	4940JJ2003B
154A	COVER,T/V	3550JJ1033A
155B	SUPPORTER ASSEMBLY,COVER-T/V	4981JJ2001A
158A	COVER,LAMP	3550JJ1040A
158E	COVER,LAMP	3550JJ1051A
160B	DECO,TRAY	3806JL2005D
161A	COVER,TRAY	3550JJ2026A
167B	GLASS,SHELF	4890JL1002K
168A	COVER,MAGIC ROOM	3550JJ1035A
170A	TRAY ASSEMBLY,MEAT	3391JJ2004K
200A	DOOR ASSEMBLY,F	3581JJ8018J
201A	DOOR FOAM ASSEMBLY,F	5433JJ0058P
203A	GASKET ASSEMBLY,DOOR	4987JJ1004A
205A	BASKET,DOOR	5004JJ1042B
205B	BASKET,TILT	5004JJ2005B
205C	BASKET,TILT	5004JJ2005A
210A	STOPPER,DOOR	4620JJ2005A
210B	STOPPER,DOOR	4620JJ2008A
212A	HANDLE,F	3650JJ1035A
212G	MARK	3846JD1007B
230A	DOOR ASSEMBLY,R	3581JJ8024U
231A	DOOR FOAM ASSEMBLY,R	5433JJ0019V
233A	GASKET ASSEMBLY,DOOR	4987JJ1004B
237A	GUIDE,BOTTLE	4974JJ2012A
237C	GUIDE,DRAWER	4974JJ1021A
241A	COVER,TRAY	3550JL2003H
241B	BASKET,DOOR	5004JJ1021A
241C	BASKET ASSEMBLY,DOOR	5005JJ2017A
241D	BASKET ASSEMBLY,DOOR	5005JJ2020A
241E	BASKET ASSEMBLY,DOOR	5005JJ2018A
243A	STOPPER,DOOR	4620JJ3006D
244A	HANDLE,R	3650JJ1034E
244B	HOLDER,HANDLE	4930JJ2023A
244C	HOLDER,HANDLE	4930JJ2022A
245A	HOLDER,HANDLE	4930JJ2019B

LOC	DESCRIPTION	PART NO.
245B	HOLDER,HANDLE	4930JJ2020B
248E	DECO,TRAY	3806JJ2035A
248F	SUPPORTER,HOLDER	4980JJ2005A
248N	RAIL ASSEMBLY,SLIDE	5219JJ2002A
248P	RAIL ASSEMBLY,SLIDE	5219JJ2002B
249G	GUIDE,RAIL	4974JJ1011A
278C	LEVER,SHUTTER	4510JJ2002A
281A	COVER,HINGE	3550JJ2013D
281B	HINGE ASSEMBLY,U	4775JJ2003B
281C	HINGE ASSEMBLY,L	4775JJ2008A
281D	COVER,HINGE	3550JJ2043A
281G	COVER,HINGE	3550JJ2044A
281H	HINGE ASSEMBLY,L	4775JJ2011A
282B	HINGE ASSEMBLY,C	4775JJ8002G
282E	CAP,HINGE	5006JJ2001G
282F	DECO,DUCT	3806JL2006E
282H	CAP,HINGE	5006JJ3004F
283B	HINGE,L	4774JJ3001A
284D	SCREW,DRAWING	1STZJA3004K
285A	GUIDE ASSEMBLY,RAIL	4975JJ2007G
286A	BUSH	4984JJ3003A
301A	EVAPORATOR ASSEMBLY	5421JJ1001B
304A	COVER ASSEMBLY,BACK-M/C	3551JJ2008B
305B	ROLLER	4580JJ3001A
305B	ROLLER	4580JJ3001A
305C	PIN,DRAWING	4J04238A
305C	PIN,DRAWING	4J04238A
307A	COMPRESSOR,SET ASSEMBLY	2521JJ8004A
308A	P.T.C ASSEMBLY	6748JJ8002A
309A	O.L.P	6750JJ8002A
310A	COVER,P.T.C	3550JJ8003A
312A	RUBBER,SEAT	5040JA3031A
313A	RUBBER,SEAT	5040JJ3004A
314A	STOPPER,COMP	4620JA3009A
315A	COMP BASE ASSEMBLY,STD	3103JJ1001J
317A	DRIER ASSEMBLY	5851JJ2002B
318A	HOLDER,DRIER	4930JJ3002A
319A	TRAY,DRIP	3390JJ0003A
319C	GUIDE,FAN	4974JJ1009A
319E	BRACKET,MOTOR	4810JJ2005A
323B	CONDENSER ASSEMBLY,WIRE	5403JJ1007A
327A	CAP,DRAIN PIPE	5006JA3034A
328A	RUBBER,DAMPING	4J03020A
328B	RUBBER,DAMPING	4J04328A
329A	FAN ASSEMBLY	5901JJ1005A
329C	FAN ASSEMBLY	5901JJ1004B
332A	GRILLE ASSEMBLY,FAN	3531JJ1004A
401A	CONTROLLER ASSEMBLY(CIRC)	6615JB2005C
404A	MOTOR ASSEMBLY,REF FAN	4681JK1004A
405A	BRACKET ASSEMBLY,MOTOR	4811JJ2002A
405C	RUBBER,MOTOR-F	5040JA2009B
405F	RUBBER,MOTOR-F	5040JA2004B
406B	SWITCH,[PUSH]	6600JB1004A
409B	LAMP,[INCANDESCENT]	6912JK2002C
409D	REFLECTOR,LAMP	3034JJ1002B
410A	SOCKET ASSEMBLY,LAMP	6621JK2002D
410B	BRACKET ASSEMBLY,DOOR	4811JJ2004B
410G	CAPACITOR,DRAWING	0CZZJB2003H
411A	POWER CORD ASSEMBLY	6411JK1006A
418A	HEATER,SHEATH	5300JB1100J
420A	MOTOR(MECH),COOLING	4680JK1001B
501A	PWB(PCB) ASSEMBLY,MAIN	6871JB1213B
501F	COVER,PWB	3550JJ1042B
503C	PWB(PCB) ASSEMBLY,DISPLAY	6871JB2046B
503D	CASE,DISPLAY	3110JJ1005A
503E	COVER,DISPLAY	3550JJ2032A
503G	DECO,CONTROL	3806JL1010A
602A	HOLDER,BRACKET	4930JA3037A
610A	COVER,SENSOR	3550JJ2020A
619B	COVER,VALVE	3550JJ2024A
625A	COVER,TUBE	3550JJ2036A
700B	HANDLE ASSEMBLY,F	3651JJ2010G
700C	HANDLE ASSEMBLY,R	3651JJ2017A
903A	COVER,LOWER	3550JJ0006D
903B	HOLDER,COVER LOWER	4930JJ2021A
903D	SENSOR	6500JK1003A
903E	SENSOR	6500JK1004A
B01	SCREW,DRAWING	1STZJA3004F
S01	SCREW,DRAWING	1SZZJJ3010A
S03	SCREW,DRAWING	1SZZJJ3018A
S07	SCREW,DRAWING	4000W4A003A
S22	SCREW,DRAWING	3J05696C
S24	SCREW,DRAWING	1SZZJA3011B
S28	SCREW,DRAWING	3J05696W
S38	SCREW,DRAWING	4J00415D

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LOC	DESCRIPTION	PART NO.
103A	HANDLE,BACK	3650JJ2003E
103B	HANDLE,BACK	3650JJ2003A
103C	COVER ASSEMBLY,LOWER	3551JJ1015B
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
105A	DRAIN ASSEMBLY,PIPE-Z	5251JA3003B
105F	SKIRT,LOWER	5070JJ3002A
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A
106B	WASHER,DRAWING	4J00382C
120B	DUCT ASSEMBLY,MULTI	5209JJ1002A
125A	TRAY ASSEMBLY,ICE	3391JJ1009B
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A
128B	GUIDE ASSEMBLY,RAIL	4975JJ2002B
128C	GUIDE ASSEMBLY,RAIL	4975JJ2003C
128G	LINK	4520JJ2001A
128M	GUIDE,AIR	4974JJ2011A
131A	BANK ASSEMBLY,ICE	5075JJ1001B
135C	COVER,GRILLE FAN	3550JJ2030A
136A	TRAY ASSEMBLY,DRAWER	3391JJ1011B
136B	TRAY,DRAWER	3390JJ1087A
136F	TRAY ASSEMBLY,DRAWER	3391JJ1033B
140A	SHELF ASSEMBLY,R	5027JJ1014D
140B	SHELF ASSEMBLY,R	5027JJ1005A
140F	SHELF ASSEMBLY,NET	5027JJ2005F
141A	SHELF ASSEMBLY,R	5027JJ1014B
141B	SHELF ASSEMBLY,R	5027JJ1005A
141C	SHELF ASSEMBLY,NET	5027JJ2005C
141D	SHELF ASSEMBLY,R	5027JJ2011B
141E	SHELF ASSEMBLY,NET	5027JJ2005D
142A	SHELF ASSEMBLY,R	5027JJ1013U
142B	SHELF ASSEMBLY,R	5027JJ1006A
142D	SHELF,NET	5026JJ2001L
142E	SHELF,NET	5026JJ2001M
145A	HOLDER,SHELF	4930JJ2003A
145B	HOLDER,SHELF	4930JJ2004A
145D	GUIDE,RAIL	4974JJ1012A
145G	GUIDE ASSEMBLY,RAIL	4975JJ2005H
146D	CAN,SERVER	5044JJ1001A
147A	BANK,DAIRY	5074JJ1005A
147B	TRAY,EGG	3390JJ1014A
147C	COVER,BANK	3550JJ1017A
147D	TRAY,BUTTER	3390JJ2003A
149C	SHELF ASSEMBLY,R	5027JJ2010B
149E	SHELF ASSEMBLY,R	5027JJ2009B
151A	TRAY ASSEMBLY,VEGETABLE	3391JJ1019E
151C	KNOB,SHUTTER	4940JJ2003B
154A	COVER,T/V	3550JJ1033A
155B	SUPPORTER ASSEMBLY,COVER-T/V	4981JJ2001A
158A	COVER,LAMP	3550JJ1040A
158E	COVER,LAMP	3550JJ1051A
160B	DECO,TRAY	3806JL2005D
161A	COVER,TRAY	3550JJ2026A
167B	GLASS,SHELF	4890JL1002K
168A	COVER,MAGIC ROOM	3550JJ1035A
170A	TRAY ASSEMBLY,MEAT	3391JJ2004K
200A	DOOR ASSEMBLY,F	3581JJ8018U
201A	DOOR FOAM ASSEMBLY,F	5433JJ0058S
203A	GASKET ASSEMBLY,DOOR	4987JJ1004A
205A	BASKET,DOOR	5004JJ1042B
205B	BASKET,TILT	5004JJ2005B
205C	BASKET,TILT	5004JJ2005A
210A	STOPPER,DOOR	4620JJ2005A
210B	STOPPER,DOOR	4620JJ2008A
212B	HANDLE,F	3650JJ0019A
212F	BRACKET,HANDLE	4810JJ3015A
212G	MARK	3846JD1007B
212J	STOPPER,HANDLE	4620JJ3007A
230A	DOOR ASSEMBLY,R	3581JJ8047A
231A	DOOR FOAM ASSEMBLY,R	5433JJ0019M
233A	GASKET ASSEMBLY,DOOR	4987JJ1004B
237A	GUIDE,BOTTLE	4974JJ2012A
237C	GUIDE,DRAWER	4974JJ1021A
241A	COVER,TRAY	3550JL2003H
241B	BASKET,DOOR	5004JJ1021A
241C	BASKET ASSEMBLY,DOOR	5005JJ2017A
241D	BASKET ASSEMBLY,DOOR	5005JJ2020A
241E	BASKET ASSEMBLY,DOOR	5005JJ2018A
243A	STOPPER,DOOR	4620JJ3006A
244E	CAP,HANDLE	5006JJ3016A
244F	BRACKET,HANDLE	4810JJ2011B
244G	BRACKET,HANDLE	4810JJ2011A
244H	HANDLE,R	3650JJ0020A

LOC	DESCRIPTION	PART NO.
248E	DECO,TRAY	3806JJ2035A
248F	SUPPORTER,HOLDER	4980JJ2005A
248N	RAIL ASSEMBLY,SLIDE	5219JJ2002A
248P	RAIL ASSEMBLY,SLIDE	5219JJ2002B
249G	GUIDE,RAIL	4974JJ1011A
278C	LEVER,SHUTTER	4510JJ2002A
281A	COVER,HINGE	3550JJ2013A
281B	HINGE ASSEMBLY,U	4775JJ2003B
281C	HINGE ASSEMBLY,L	4775JJ2008A
281D	COVER,HINGE	3550JJ2043A
281G	COVER,HINGE	3550JJ2044A
281H	HINGE ASSEMBLY,L	4775JJ2011A
282B	HINGE ASSEMBLY,C	4775JJ8002A
282E	CAP,HINGE	5006JJ2001A
282F	DECO,DUCT	3806JL2006E
282H	CAP,HINGE	5006JJ3004A
283B	HINGE,L	4774JJ3001A
284D	SCREW,DRAWING	1STZJA3004K
285A	GUIDE ASSEMBLY,RAIL	4975JJ2007G
286A	BUSH	4984JJ3003A
286A	BUSH	4984JJ3003A
301A	EVAPORATOR ASSEMBLY	5421JJ1001B
304A	COVER ASSEMBLY,BACK-M/C	3551JJ2008B
305B	ROLLER	4580JJ3001A
305B	ROLLER	4580JJ3001A
305C	PIN,DRAWING	4J04238A
305C	PIN,DRAWING	4J04238A
307A	COMPRESSOR,SET ASSEMBLY	2521JJ8004A
308A	P.T.C ASSEMBLY	6748JJ8002A
309A	O.L.P	6750JJ8002A
310A	COVER,P.T.C	3550JJ8003A
312A	RUBBER,SEAT	5040JA3031A
313A	RUBBER,SEAT	5040JJ3004A
314A	STOPPER,COMP	4620JA3009A
315A	COMP BASE ASSEMBLY,STD	3103JJ1001J
317A	DRIER ASSEMBLY	5851JJ2002B
318A	HOLDER,DRIER	4930JJ3002A
319A	TRAY,DRIP	3390JJ0003A
319C	GUIDE,FAN	4974JJ1009A
319E	BRACKET,MOTOR	4810JJ2005A
323B	CONDENSER ASSEMBLY,WIRE	5403JJ1007A
327A	CAP,DRAIN PIPE	5006JA3034A
328A	RUBBER,DAMPING	4J03020A
328B	RUBBER,DAMPING	4J04328A
329A	FAN ASSEMBLY	5901JJ1005A
329C	FAN ASSEMBLY	5901JJ1004B
332A	GRILLE ASSEMBLY,FAN	3531JJ1004A
401A	CONTROLLER ASSEMBLY(CIRC)	6615JB2005C
404A	MOTOR ASSEMBLY,REF FAN	4681JK1004A
405A	BRACKET ASSEMBLY,MOTOR	4811JJ2002A
405C	RUBBER,MOTOR-F	5040JA2009B
405F	RUBBER,MOTOR-F	5040JA2004B
406B	SWITCH,[PUSH]	6600JB1004A
409B	LAMP,[INCANDESCENT]	6912JK2002C
409D	REFLECTOR,LAMP	3034JJ1002B
410A	SOCKET ASSEMBLY,LAMP	6621JK2002D
410B	BRACKET ASSEMBLY,DOOR	4811JJ2004B
410G	CAPACITOR,DRAWING	0CZZJB2003H
411A	POWER CORD ASSEMBLY	6411JK1006A
418A	HEATER,SHEATH	5300JB1100J
420A	MOTOR(MECH),COOLING	4680JK1001B
501A	PWB(PCB) ASSEMBLY,MAIN	6871JB1213B
501F	COVER,PWB	3550JJ1042B
503C	PWB(PCB) ASSEMBLY,DISPLAY	6871JB2046B
503D	CASE,DISPLAY	3110JJ1005A
503E	COVER,DISPLAY	3550JJ2032A
503G	DECO,CONTROL	3806JL1010A
602A	HOLDER,BRACKET	4930JA3037A
610A	COVER,SENSOR	3550JJ2020A
619B	COVER,VALVE	3550JJ2024A
625A	COVER,TUBE	3550JJ2036A
700B	HANDLE ASSEMBLY,F	3651JJ2016D
700C	HANDLE ASSEMBLY,R	3651JJ2015D
903A	COVER,LOWER	3550JJ0006A
903B	HOLDER,COVER LOWER	4930JJ2021A
903D	SENSOR	6500JK1003A
903E	SENSOR	6500JK1004A
B01	SCREW,DRAWING	1STZJA3004F
S01	SCREW,DRAWING	1SZZJJ3010A
S07	SCREW,DRAWING	4000W4A003A
S22	SCREW,DRAWING	3J05696C
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S28	SCREW,DRAWING	3J05696W
S38	SCREW,DRAWING	4J00415D

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LOC	DESCRIPTION	PART NO.
103A	HANDLE,BACK	3650JJ2003M
103B	HANDLE,BACK	3650JJ2003L
103C	COVER ASSEMBLY,LOWER	3551JJ1015F
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
105A	DRAIN ASSEMBLY,PIPE-Z	5251JA3003B
105F	SKIRT,LOWER	5070JJ3002A
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A
106B	WASHER,DRAWING	4J00382C
120B	DUCT ASSEMBLY,MULTI	5209JJ1002A
125A	TRAY ASSEMBLY,ICE	3391JJ1009B
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A
128B	GUIDE ASSEMBLY,RAIL	4975JJ2002B
128C	GUIDE ASSEMBLY,RAIL	4975JJ2003C
128G	LINK	4520JJ2001A
128M	GUIDE,AIR	4974JJ2011A
131A	BANK ASSEMBLY,ICE	5075JJ1001B
135C	COVER,GRILLE FAN	3550JJ2030A
136A	TRAY ASSEMBLY,DRAWER	3391JJ1011B
136B	TRAY,DRAWER	3390JJ1087A
136F	TRAY ASSEMBLY,DRAWER	3391JJ1033B
140A	SHELF ASSEMBLY,R	5027JJ1014D
140B	SHELF ASSEMBLY,R	5027JJ1005A
140F	SHELF ASSEMBLY,NET	5027JJ2005F
141A	SHELF ASSEMBLY,R	5027JJ1014B
141B	SHELF ASSEMBLY,R	5027JJ1005A
141C	SHELF ASSEMBLY,NET	5027JJ2005C
141D	SHELF ASSEMBLY,R	5027JJ2011B
141E	SHELF ASSEMBLY,NET	5027JJ2005D
142A	SHELF ASSEMBLY,R	5027JJ1013U
142B	SHELF ASSEMBLY,R	5027JJ1006A
142D	SHELF,NET	5026JJ2001L
142E	SHELF,NET	5026JJ2001M
145A	HOLDER,SHELF	4930JJ2003A
145B	HOLDER,SHELF	4930JJ2004A
145D	GUIDE,RAIL	4974JJ1012A
145G	GUIDE ASSEMBLY,RAIL	4975JJ2005H
146D	CAN,SERVER	5044JJ1001A
147A	BANK,DAIRY	5074JJ1005A
147B	TRAY,EGG	3390JJ1014A
147C	COVER,BANK	3550JJ1017A
147D	TRAY,BUTTER	3390JJ2003A
149C	SHELF ASSEMBLY,R	5027JJ2010B
149E	SHELF ASSEMBLY,R	5027JJ2009B
151A	TRAY ASSEMBLY,VEGETABLE	3391JJ1019E
151C	KNOB,SHUTTER	4940JJ2003B
154A	COVER,T/V	3550JJ1033A
155B	SUPPORTER ASSEMBLY,COVER-T/V	4981JJ2001A
158A	COVER,LAMP	3550JJ1040A
158E	COVER,LAMP	3550JJ1051A
160B	DECO,TRAY	3806JL2005D
161A	COVER,TRAY	3550JJ2026A
167B	GLASS,SHELF	4890JL1002K
168A	COVER,MAGIC ROOM	3550JJ1035A
170A	TRAY ASSEMBLY,MEAT	3391JJ2004K
200A	DOOR ASSEMBLY,F	3581JJ8019Y
201A	DOOR FOAM ASSEMBLY,F	5433JJ0058R
203A	GASKET ASSEMBLY,DOOR	4987JJ1004E
205A	BASKET,DOOR	5004JJ1042B
205B	BASKET,TILT	5004JJ2005B
205C	BASKET,TILT	5004JJ2005A
210A	STOPPER,DOOR	4620JJ2005A
210B	STOPPER,DOOR	4620JJ2008A
212A	HANDLE,F	3650JJ1035C
212G	MARK	3846JD1007D
230A	DOOR ASSEMBLY,R	3581JJ8024G
231A	DOOR FOAM ASSEMBLY,R	5433JJ0019S
233A	GASKET ASSEMBLY,DOOR	4987JJ1004F
237A	GUIDE,BOTTLE	4974JJ2012A
237C	GUIDE,DRAWER	4974JJ1021A
241A	COVER,TRAY	3550JL2003H
241B	BASKET,DOOR	5004JJ1021A
241C	BASKET ASSEMBLY,DOOR	5005JJ2017A
241D	BASKET ASSEMBLY,DOOR	5005JJ2020A
241E	BASKET ASSEMBLY,DOOR	5005JJ2018A
243A	STOPPER,DOOR	4620JJ3006C
244A	HANDLE,R	3650JJ1034Q
244B	HOLDER,HANDLE	4930JJ2023C
244C	HOLDER,HANDLE	4930JJ2022C
244J	STOPPER,HANDLE	4620JJ3007A
245A	HOLDER,HANDLE	4930JJ2019C

LOC	DESCRIPTION	PART NO.
245B	HOLDER,HANDLE	4930JJ2020C
248E	DECO,TRAY	3806JJ2035A
248F	SUPPORTER,HOLDER	4980JJ2005A
248N	RAIL ASSEMBLY,SLIDE	5219JJ2002A
248P	RAIL ASSEMBLY,SLIDE	5219JJ2002B
249G	GUIDE,RAIL	4974JJ1011A
278C	LEVER,SHUTTER	4510JJ2002A
281A	COVER,HINGE	3550JJ2013C
281B	HINGE ASSEMBLY,U	4775JJ2003B
281C	HINGE ASSEMBLY,L	4775JJ2008A
281D	COVER,HINGE	3550JJ2043A
281G	COVER,HINGE	3550JJ2044A
281H	HINGE ASSEMBLY,L	4775JJ2011A
282B	HINGE ASSEMBLY,C	4775JJ8002C
282E	CAP,HINGE	5006JJ2001F
282F	DECO,DUCT	3806JL2006E
282H	CAP,HINGE	5006JJ3004E
283B	HINGE,L	4774JJ3001A
284D	SCREW,DRAWING	1STZJA3004K
285A	GUIDE ASSEMBLY,RAIL	4975JJ2007G
286A	BUSH	4984JJ3003A
286A	BUSH	4984JJ3003A
301A	EVAPORATOR ASSEMBLY	5421JJ1001B
304A	COVER ASSEMBLY,BACK-M/C	3551JJ2008B
305B	ROLLER	4580JJ3001A
305B	ROLLER	4580JJ3001A
305C	PIN,DRAWING	4J04238A
305C	PIN,DRAWING	4J04238A
307A	COMPRESSOR,SET ASSEMBLY	2521JJ8004A
308A	P.T.C ASSEMBLY	6748JJ8002A
309A	O.L.P	6750JJ8002A
310A	COVER,P.T.C	3550JJ8003A
312A	RUBBER,SEAT	5040JA3031A
313A	RUBBER,SEAT	5040JJ3004A
314A	STOPPER,COMP	4620JA3009A
315A	COMP BASE ASSEMBLY,STD	3103JJ1001J
317A	DRIER ASSEMBLY	5851JJ2002B
318A	HOLDER,DRIER	4930JJ3002A
319A	TRAY,DRIP	3390JJ0003A
319C	GUIDE,FAN	4974JJ1009A
319E	BRACKET,MOTOR	4810JJ2005A
323B	CONDENSER ASSEMBLY,WIRE	5403JJ1007A
327A	CAP,DRAIN PIPE	5006JA3034A
328A	RUBBER,DAMPING	4J03020A
328B	RUBBER,DAMPING	4J04328A
329A	FAN ASSEMBLY	5901JJ1005A
329C	FAN ASSEMBLY	5901JJ1004B
332A	GRILLE ASSEMBLY,FAN	3531JJ1004A
401A	CONTROLLER ASSEMBLY(CIRC)	6615JB2005C
404A	MOTOR ASSEMBLY,REF FAN	4681JK1004A
405A	BRACKET ASSEMBLY,MOTOR	4811JJ2002A
405C	RUBBER,MOTOR-F	5040JA2009B
405F	RUBBER,MOTOR-F	5040JA2004B
406B	SWITCH,[PUSH]	6600JB1004A
409B	LAMP,[INCANDESCENT]	6912JK2002C
409D	REFLECTOR,LAMP	3034JJ1002B
410A	SOCKET ASSEMBLY,LAMP	6621JK2002D
410B	BRACKET ASSEMBLY,DOOR	4811JJ2004B
410G	CAPACITOR,DRAWING	0CZZJB2003H
411A	POWER CORD ASSEMBLY	6411JK1006A
418A	HEATER,SHEATH	5300JB1100J
420A	MOTOR(MECH),COOLING	4680JK1001B
501A	PWB(PCB) ASSEMBLY,MAIN	6871JB1213B
501F	COVER,PWB	3550JJ1042B
503C	PWB(PCB) ASSEMBLY,DISPLAY	6871JB2046B
503D	CASE,DISPLAY	3110JJ1005A
503E	COVER,DISPLAY	3550JJ2032A
503G	DECO,CONTROL	3806JL1010A
602A	HOLDER,BRACKET	4930JA3037A
610A	COVER,SENSOR	3550JJ2020A
619B	COVER,VALVE	3550JJ2024A
625A	COVER,TUBE	3550JJ2036A
700B	HANDLE ASSEMBLY,F	3651JJ2010J
700C	HANDLE ASSEMBLY,R	3651JJ2017C
903A	COVER,LOWER	3550JJ0006C
903B	HOLDER,COVER LOWER	4930JJ2021A
903D	SENSOR	6500JK1003A
903E	SENSOR	6500JK1004A
B01	SCREW,DRAWING	1STZJA3004F
S01	SCREW,DRAWING	1SZZJJ3010A
S03	SCREW,DRAWING	1SZZJJ3018A
S07	SCREW,DRAWING	4000W4A003A
S22	SCREW,DRAWING	3J05696C
S24	SCREW,DRAWING	1SZZJA3011B
S28	SCREW,DRAWING	3J05696W
S38	SCREW,DRAWING	4J00415D

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LOC	DESCRIPTION	PART NO.
103A	HANDLE,BACK	3650JJ2003E
103B	HANDLE,BACK	3650JJ2003A
103C	COVER ASSEMBLY,LOWER	3551JJ1015B
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
105A	DRAIN ASSEMBLY,PIPE-Z	5251JA3003B
105F	SKIRT,LOWER	5070JJ3002A
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A
106B	WASHER,DRAWING	4J00382C
120B	DUCT ASSEMBLY,MULTI	5209JJ1002A
125A	TRAY ASSEMBLY,ICE	3391JJ1009B
125D	HOLDER,BRACKET	4930JJ3007A
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A
128B	GUIDE ASSEMBLY,RAIL	4975JJ2002B
131A	BANK ASSEMBLY,ICE	5075JJ1001B
135C	COVER,GRILLE FAN	3550JJ2030A
136A	TRAY ASSEMBLY,DRAWER	3391JJ1011B
136B	TRAY,DRAWER	3390JJ1087A
136F	TRAY ASSEMBLY,DRAWER	3391JJ1033B
140B	SHELF ASSEMBLY,R	5027JJ2007B
140B	SHELF ASSEMBLY,R	5027JJ2007B
140D	SHELF,NET	5026JJ2001G
140E	SHELF,NET	5026JJ2001H
142D	SHELF,NET	5026JJ2001L
142E	SHELF,NET	5026JJ2001M
143E	SHELF ASSEMBLY,R	5027JJ1008B
143F	SHELF ASSEMBLY,R	5027JJ1008D
145A	HOLDER,SHELF	4930JJ2003A
145B	HOLDER,SHELF	4930JJ2004A
145D	GUIDE,RAIL	4974JJ1012A
145G	GUIDE ASSEMBLY,RAIL	4975JJ2005H
146D	CAN,SERVER	5044JJ1001A
147A	BANK,DAIRY	5074JJ1005A
151A	TRAY ASSEMBLY,VEGETABLE	3391JJ1019E
151C	KNOB,SHUTTER	4940JJ2003B
154A	COVER,T/V	3550JJ1033A
155B	SUPPORTER ASSEMBLY,COVER-T/V	4981JJ2001A
158A	COVER,LAMP	3550JJ1040A
158E	COVER,LAMP	3550JJ1051A
160B	DECO,TRAY	3806JL2005D
161A	COVER,TRAY	3550JJ2026A
167B	GLASS,SHELF	4890JL1002K
170A	TRAY ASSEMBLY,MEAT	3391JJ2004H
200A	DOOR ASSEMBLY,F	3581JJ8019V
201A	DOOR FOAM ASSEMBLY,F	5433JJ0058H
203A	GASKET ASSEMBLY,DOOR	4987JJ1004A
205D	BASKET,DOOR	5004JJ1040A
212A	HANDLE,F	3650JJ1035B
212G	MARK	3846JD1007B
230A	DOOR ASSEMBLY,R	3581JJ8024B
231A	DOOR FOAM ASSEMBLY,R	5433JJ0019B
233A	GASKET ASSEMBLY,DOOR	4987JJ1004B
237A	GUIDE,BOTTLE	4974JJ2012A
237C	GUIDE,DRAWER	4974JJ1021A
241A	COVER,TRAY	3550JL2003H
241B	BASKET,DOOR	5004JJ1021A
241C	BASKET ASSEMBLY,DOOR	5005JJ2017A
241D	BASKET ASSEMBLY,DOOR	5005JJ2020A
241E	BASKET ASSEMBLY,DOOR	5005JJ2018A
243A	STOPPER,DOOR	4620JJ3006A
244A	HANDLE,R	3650JJ1034K
244B	HOLDER,HANDLE	4930JJ2023B
244C	HOLDER,HANDLE	4930JJ2022B
244J	STOPPER,HANDLE	4620JJ3007A
245A	HOLDER,HANDLE	4930JJ2019A
245B	HOLDER,HANDLE	4930JJ2020A
248E	DECO,TRAY	3806JJ2035A
248F	SUPPORTER,HOLDER	4980JJ2005A
248N	RAIL ASSEMBLY,SLIDE	5219JJ2002A
248P	RAIL ASSEMBLY,SLIDE	5219JJ2002B
249G	GUIDE,RAIL	4974JJ1011A
281A	COVER,HINGE	3550JJ2013A

LOC	DESCRIPTION	PART NO.
281B	HINGE ASSEMBLY,U	4775JJ2003B
281C	HINGE ASSEMBLY,L	4775JJ2008A
282B	HINGE ASSEMBLY,C	4775JJ8002A
282E	CAP,HINGE	5006JJ2001A
282F	DECO,DUCT	3806JL2006E
282H	CAP,HINGE	5006JJ3004A
283B	HINGE,L	4774JJ3001A
284D	SCREW,DRAWING	1STZJA3004K
285A	GUIDE ASSEMBLY,RAIL	4975JJ2007G
286A	BUSH	4984JJ3003A
286A	BUSH	4984JJ3003A
301A	EVAPORATOR ASSEMBLY	5421JJ1001B
304A	COVER ASSEMBLY,BACK-M/C	3551JJ2008B
305B	ROLLER	4580JJ3001A
305B	ROLLER	4580JJ3001A
305C	PIN,DRAWING	4J04238A
305C	PIN,DRAWING	4J04238A
307A	COMPRESSOR,SET ASSEMBLY	2521C-A5725
308A	P.T.C ASSEMBLY	6748C-0004D
309A	O.L.P	6750CR0004S
310A	COVER,P.T.C	3550JA2042A
312A	RUBBER,SEAT	5040JA3031A
314A	STOPPER,COMP	4620JA3009A
315A	COMP BASE ASSEMBLY,STD	3103JJ1001J
317A	DRIER ASSEMBLY	5851JJ2002B
318A	HOLDER,DRIER	4930JJ3002A
319A	TRAY,DRIP	3390JJ0003A
319C	GUIDE,FAN	4974JJ1009A
323B	CONDENSER ASSEMBLY,WIRE	5403JJ1007A
327A	CAP,DRAIN PIPE	5006JA3034A
328A	RUBBER,DAMPING	4J03020A
328B	RUBBER,DAMPING	4J04328A
328B	RUBBER,DAMPING	4J04328A
329A	FAN ASSEMBLY	5901JJ1005A
329C	FAN ASSEMBLY	5901JJ1004B
332A	GRILLE ASSEMBLY,FAN	3531JJ1004A
401A	CONTROLLER ASSEMBLY(CIRC)	6615JB2005C
404A	MOTOR ASSEMBLY,REF FAN	4680JK1002B
405A	BRACKET ASSEMBLY,MOTOR	4811JJ2002B
405B	BRACKET,MOTOR	4810JA3007A
405C	RUBBER,MOTOR-F	J756-00008B
406B	SWITCH,[PUSH]	6600JB1004A
409B	LAMP,[INCANDESCENT]	6912JK2002C
409D	REFLECTOR,LAMP	3034JJ1002B
410A	SOCKET ASSEMBLY,LAMP	6621JK2002D
410G	CAPACITOR,DRAWING	0CZZJB2003H
411A	POWER CORD ASSEMBLY	6411JK1006A
418A	HEATER,SHEATH	5300JB1100J
420A	MOTOR(MECH),COOLING	4680JK1001B
501A	PWB(PCB) ASSEMBLY,MAIN	6871JB1215A
501F	COVER,PWB	3550JJ1042B
503C	PWB(PCB) ASSEMBLY,DISPLAY	6871JB2047A
503D	CASE,DISPLAY	3110JJ1005A
503E	COVER,DISPLAY	3550JJ2031A
503G	DECO,CONTROL	3806JL1009A
602A	HOLDER,BRACKET	4930JA3037A
610A	COVER,SENSOR	3550JJ2020A
619B	COVER,VALVE	3550JJ2024A
621A	CONNECTOR (MECH),DOOR	4932JJ2001B
625A	COVER,TUBE	3550JJ2036A
700B	HANDLE ASSEMBLY,F	3651JJ2010H
700C	HANDLE ASSEMBLY,R	3651JJ2017B
903A	COVER,LOWER	3550JJ0006A
903B	HOLDER,COVER LOWER	4930JJ2021A
903D	SENSOR	6500JK1003A
903E	SENSOR	6500JK1004A
B01	SCREW,DRAWING	1STZJA3004F
S01	SCREW,DRAWING	1SZZJJ3010A
S03	SCREW,DRAWING	1SZZJJ3018A
S07	SCREW,DRAWING	4000W4A003A
S22	SCREW,DRAWING	3J05696C
S24	SCREW,DRAWING	1SZZJA3011B
S28	SCREW,DRAWING	3J05696W
S38	SCREW,DRAWING	4J00415D

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LOC	DESCRIPTION	PART NO.
103A	HANDLE,BACK	3650JJ2003M
103B	HANDLE,BACK	3650JJ2003L
103C	COVER ASSEMBLY,LOWER	3551JJ1015F
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
105A	DRAIN ASSEMBLY,PIPE-Z	5251JA3003B
105F	SKIRT,LOWER	5070JJ3002A
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A
106B	WASHER,DRAWING	4J00382C
120B	DUCT ASSEMBLY,MULTI	5209JJ1002A
125A	TRAY ASSEMBLY,ICE	3391JJ1009B
125D	HOLDER,BRACKET	4930JJ3007A
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A
128B	GUIDE ASSEMBLY,RAIL	4975JJ2002B
131A	BANK ASSEMBLY,ICE	5075JJ1001B
135C	COVER,GRILLE FAN	3550JJ2030A
136A	TRAY ASSEMBLY,DRAWER	3391JJ1011B
136B	TRAY,DRAWER	3390JJ1087A
136F	TRAY ASSEMBLY,DRAWER	3391JJ1033B
140B	SHELF ASSEMBLY,R	5027JJ2007B
140B	SHELF ASSEMBLY,R	5027JJ2007B
140D	SHELF,NET	5026JJ2001G
140E	SHELF,NET	5026JJ2001H
142D	SHELF,NET	5026JJ2001L
142E	SHELF,NET	5026JJ2001M
143E	SHELF ASSEMBLY,R	5027JJ1008B
143F	SHELF ASSEMBLY,R	5027JJ1008D
145A	HOLDER,SHELF	4930JJ2003A
145B	HOLDER,SHELF	4930JJ2004A
145D	GUIDE,RAIL	4974JJ1012A
145G	GUIDE ASSEMBLY,RAIL	4975JJ2005H
146D	CAN,SERVER	5044JJ1001A
147A	BANK,DAIRY	5074JJ1005A
151A	TRAY ASSEMBLY,VEGETABLE	3391JJ1019E
151C	KNOB,SHUTTER	4940JJ2003B
154A	COVER,T/V	3550JJ1033A
155B	SUPPORTER ASSEMBLY,COVER-T/V	4981JJ2001A
158A	COVER,LAMP	3550JJ1040A
158E	COVER,LAMP	3550JJ1051A
160B	DECO,TRAY	3806JL2005D
161A	COVER,TRAY	3550JJ2026A
167B	GLASS,SHELF	4890JL1002K
170A	TRAY ASSEMBLY,MEAT	3391JJ2004H
200A	DOOR ASSEMBLY,F	3581JJ8019U
201A	DOOR FOAM ASSEMBLY,F	5433JJ0058L
203A	GASKET ASSEMBLY,DOOR	4987JJ1004E
205D	BASKET,DOOR	5004JJ1040A
212A	HANDLE,F	3650JJ1035A
212G	MARK	3846JD1007B
230A	DOOR ASSEMBLY,R	3581JJ8024H
231A	DOOR FOAM ASSEMBLY,R	5433JJ0019T
233A	GASKET ASSEMBLY,DOOR	4987JJ1004F
237A	GUIDE,BOTTLE	4974JJ2012A
237C	GUIDE,DRAWER	4974JJ1021A
241A	COVER,TRAY	3550JL2003H
241B	BASKET,DOOR	5004JJ1021A
241C	BASKET ASSEMBLY,DOOR	5005JJ2017A
241D	BASKET ASSEMBLY,DOOR	5005JJ2020A
241E	BASKET ASSEMBLY,DOOR	5005JJ2018A
243A	STOPPER,DOOR	4620JJ3006C
244A	HANDLE,R	3650JJ1034E
244B	HOLDER,HANDLE	4930JJ2023A
244C	HOLDER,HANDLE	4930JJ2022A
244J	STOPPER,HANDLE	4620JJ3007A
245A	HOLDER,HANDLE	4930JJ2019B
245B	HOLDER,HANDLE	4930JJ2020B
248E	DECO,TRAY	3806JJ2035A
248F	SUPPORTER,HOLDER	4980JJ2005A
248N	RAIL ASSEMBLY,SLIDE	5219JJ2002A
248P	RAIL ASSEMBLY,SLIDE	5219JJ2002B
249G	GUIDE,RAIL	4974JJ1011A
281A	COVER,HINGE	3550JJ2013C
281B	HINGE ASSEMBLY,U	4775JJ2003B
281C	HINGE ASSEMBLY,L	4775JJ2008A

LOC	DESCRIPTION	PART NO.
282B	HINGE ASSEMBLY,C	4775JJ8002C
282E	CAP,HINGE	5006JJ2001F
282F	DECO,DUCT	3806JL2006E
282H	CAP,HINGE	5006JJ3004E
283B	HINGE,L	4774JJ3001A
284D	SCREW,DRAWING	1STZJA3004K
285A	GUIDE ASSEMBLY,RAIL	4975JJ2007G
286A	BUSH	4984JJ3003A
286A	BUSH	4984JJ3003A
301A	EVAPORATOR ASSEMBLY	5421JJ1001B
304A	COVER ASSEMBLY,BACK-M/C	3551JJ2008B
305B	ROLLER	4580JJ3001A
305B	ROLLER	4580JJ3001A
305C	PIN,DRAWING	4J04238A
305C	PIN,DRAWING	4J04238A
307A	COMPRESSOR,SET ASSEMBLY	2521C-A5725
308A	P.T.C ASSEMBLY	6748C-0004D
309A	O.L.P	6750CR0004S
310A	COVER,P.T.C	3550JA2042A
312A	RUBBER,SEAT	5040JA3031A
314A	STOPPER,COMP	4620JA3009A
315A	COMP BASE ASSEMBLY,STD	3103JJ1001J
317A	DRIER ASSEMBLY	5851JJ2002B
318A	HOLDER,DRIER	4930JJ3002A
319A	TRAY,DRIP	3390JJ0003A
319C	GUIDE,FAN	4974JJ1009A
323B	CONDENSER ASSEMBLY,WIRE	5403JJ1007A
327A	CAP,DRAIN PIPE	5006JA3034A
328A	RUBBER,DAMPING	4J03020A
328B	RUBBER,DAMPING	4J04328A
328B	RUBBER,DAMPING	4J04328A
329A	FAN ASSEMBLY	5901JJ1005A
329C	FAN ASSEMBLY	5901JJ1004B
332A	GRILLE ASSEMBLY,FAN	3531JJ1004A
401A	CONTROLLER ASSEMBLY(CIRC)	6615JB2005C
404A	MOTOR ASSEMBLY,REF FAN	4680JK1002B
405A	BRACKET ASSEMBLY,MOTOR	4811JJ2002B
405B	BRACKET,MOTOR	4810JA3007A
405C	RUBBER,MOTOR-F	J756-00008B
406B	SWITCH,[PUSH]	6600JB1004A
409B	LAMP,[INCANDESCENT]	6912JK2002C
409D	REFLECTOR,LAMP	3034JJ1002B
410A	SOCKET ASSEMBLY,LAMP	6621JK2002D
410G	CAPACITOR,DRAWING	0CZZJB2003H
411A	POWER CORD ASSEMBLY	6411JK1006A
418A	HEATER,SHEATH	5300JB1100J
420A	MOTOR(MECH),COOLING	4680JK1001B
501A	PWB(PCB) ASSEMBLY,MAIN	6871JB1215A
501F	COVER,PWB	3550JJ1042B
503C	PWB(PCB) ASSEMBLY,DISPLAY	6871JB2047A
503D	CASE,DISPLAY	3110JJ1005A
503E	COVER,DISPLAY	3550JJ2031A
503G	DECO,CONTROL	3806JL1009A
602A	HOLDER,BRACKET	4930JA3037A
610A	COVER,SENSOR	3550JJ2020A
619B	COVER,VALVE	3550JJ2024A
621A	CONNECTOR (MECH),DOOR	4932JJ2001B
625A	COVER,TUBE	3550JJ2036A
700B	HANDLE ASSEMBLY,F	3651JJ2010G
700C	HANDLE ASSEMBLY,R	3651JJ2017A
903A	COVER,LOWER	3550JJ0006C
903B	HOLDER,COVER LOWER	4930JJ2021A
903D	SENSOR	6500JK1003A
903E	SENSOR	6500JK1004A
B01	SCREW,DRAWING	1STZJA3004F
S01	SCREW,DRAWING	1SZZJJ3010A
S03	SCREW,DRAWING	1SZZJJ3018A
S07	SCREW,DRAWING	4000W4A003A
S22	SCREW,DRAWING	3J05696C
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S28	SCREW,DRAWING	3J05696W
S38	SCREW,DRAWING	4J00415D

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LOC	DESCRIPTION	PART NO.
103A	HANDLE,BACK	3650JJ2003M
103B	HANDLE,BACK	3650JJ2003L
103C	COVER ASSEMBLY,LOWER	3551JJ1015E
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
105A	DRAIN ASSEMBLY,PIPE-Z	5251JJ2003A
105F	SKIRT,LOWER	5070JJ3002A
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A
106B	WASHER,DRAWING	4J00382C
120B	DUCT ASSEMBLY,MULTI	5209JJ1002A
125A	TRAY ASSEMBLY,ICE	3391JJ1009B
125D	HOLDER,BRACKET	4930JJ3007A
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A
128B	GUIDE ASSEMBLY,RAIL	4975JJ2002B
131A	BANK ASSEMBLY,ICE	5075JJ1001B
135C	COVER,GRILLE FAN	3550JJ2030A
136A	TRAY ASSEMBLY,DRAWER	3391JJ1011A
136B	TRAY,DRAWER	3390JJ1088A
136F	TRAY ASSEMBLY,DRAWER	3391JJ1033A
140B	SHELF ASSEMBLY,R	5027JJ2007A
140B	SHELF ASSEMBLY,R	5027JJ2007A
140D	SHELF,NET	5026JJ2001G
140E	SHELF,NET	5026JJ2001H
142D	SHELF,NET	5026JJ2001L
142E	SHELF,NET	5026JJ2001M
143E	SHELF ASSEMBLY,R	5027JJ1008A
143F	SHELF ASSEMBLY,R	5027JJ1008C
145A	HOLDER,SHELF	4930JJ2003A
145B	HOLDER,SHELF	4930JJ2004A
145D	GUIDE,RAIL	4974JJ1012A
145G	GUIDE ASSEMBLY,RAIL	4975JJ2005H
146D	CAN,SERVER	5044JJ1002A
147A	BANK,DAIRY	5074JJ1005A
151A	TRAY ASSEMBLY,VEGETABLE	3391JJ1020D
151C	KNOB,SHUTTER	4940JJ2003B
154A	COVER,T/V	3550JL1006D
155B	SUPPORTER ASSEMBLY,COVER-T/V	4981JJ2001B
158A	COVER,LAMP	3550JJ1040A
158E	COVER,LAMP	3550JJ1051A
167B	GLASS,SHELF	4890JL1002G
170A	TRAY ASSEMBLY,MEAT	3391JJ2004G
200A	DOOR ASSEMBLY,F	3581JJ8054A
201A	DOOR FOAM ASSEMBLY,F	5433JJ0059G
203A	GASKET ASSEMBLY,DOOR	4987JJ1004G
205A	BASKET,DOOR	5004JJ1042A
205B	BASKET,TILT	5004JJ2005B
205C	BASKET,TILT	5004JJ2005A
212A	HANDLE,F	3650JJ1035A
212G	MARK	3846JD1007B
230A	DOOR ASSEMBLY,R	3581JJ8027C
231A	DOOR FOAM ASSEMBLY,R	5433JJ0016E
233A	GASKET ASSEMBLY,DOOR	4987JJ1004H
237A	GUIDE,BOTTLE	4974JJ2012A
237C	GUIDE,DRAWER	4974JJ1021A
241A	COVER,TRAY	3550JL2003G
241B	BASKET,DOOR	5004JJ1035A
241C	BASKET ASSEMBLY,DOOR	5005JJ2017B
241D	BASKET ASSEMBLY,DOOR	5005JJ2020B
241E	BASKET ASSEMBLY,DOOR	5005JJ2018B
243A	STOPPER,DOOR	4620JJ3006C
244A	HANDLE,R	3650JJ1034D
244B	HOLDER,HANDLE	4930JJ2023A
244C	HOLDER,HANDLE	4930JJ2022A
244J	STOPPER,HANDLE	4620JJ3007A
245A	HOLDER,HANDLE	4930JJ2019B
245B	HOLDER,HANDLE	4930JJ2020B
248E	DECO,TRAY	3806JJ2036A
248F	SUPPORTER,HOLDER	4980JJ2005B
248N	RAIL ASSEMBLY,SLIDE	5219JJ2002A
248P	RAIL ASSEMBLY,SLIDE	5219JJ2002B
249G	GUIDE,RAIL	4974JJ1011A

LOC	DESCRIPTION	PART NO.
281A	COVER,HINGE	3550JJ2013C
281B	HINGE ASSEMBLY,U	4775JJ2003B
281C	HINGE ASSEMBLY,L	4775JJ2008A
282B	HINGE ASSEMBLY,C	4775JJ8002C
282E	CAP,HINGE	5006JJ2001F
282F	DECO,DUCT	3806JL2006E
282H	CAP,HINGE	5006JJ3004E
283B	HINGE,L	4774JJ3001A
284D	SCREW,DRAWING	1STZJA3004K
285A	GUIDE ASSEMBLY,RAIL	4975JJ2007G
286A	BUSH	4984JJ3003A
286A	BUSH	4984JJ3003A
301A	EVAPORATOR ASSEMBLY	5421JJ1001A
304A	COVER ASSEMBLY,BACK-M/C	3551JJ2008A
305B	ROLLER	4580JJ3001A
305B	ROLLER	4580JJ3001A
305C	PIN,DRAWING	4J04238A
305C	PIN,DRAWING	4J04238A
307A	COMPRESSOR,SET ASSEMBLY	2521JJ8004A
308A	P.T.C ASSEMBLY	6748JJ8002A
309A	O.L.P	6750JJ8002A
310A	COVER,P.T.C	3550JJ8003A
312A	RUBBER,SEAT	5040JA3031A
314A	STOPPER,COMP	4620JA3009A
315A	COMP BASE ASSEMBLY,STD	3103JJ1001K
317A	DRIER ASSEMBLY	5851JJ2002B
318A	HOLDER,DRIER	4930JJ3002A
319A	TRAY,DRIP	3390JJ0003A
319C	GUIDE,FAN	4974JJ1009A
323B	CONDENSER ASSEMBLY,WIRE	5403JJ1005A
328A	RUBBER,DAMPING	4J03020A
328B	RUBBER,DAMPING	4J04328A
329A	FAN ASSEMBLY	5901JJ1005A
329C	FAN ASSEMBLY	5901JJ1004B
332A	GRILLE ASSEMBLY,FAN	3531JJ1004B
401A	CONTROLLER ASSEMBLY(CIRC)	6615JB2005C
404A	MOTOR ASSEMBLY,REF FAN	4680JK1002B
405A	BRACKET ASSEMBLY,MOTOR	4811JJ2002B
405B	BRACKET,MOTOR	4810JA3007A
405C	RUBBER,MOTOR-F	J756-00008B
406B	SWITCH,[PUSH]	6600JB1004A
409B	LAMP,[INCANDESCENT]	6912JK2002C
409D	REFLECTOR,LAMP	3034JJ1002B
410A	SOCKET ASSEMBLY,LAMP	6621JK2002D
410G	CAPACITOR,DRAWING	0CZZJB2003H
411A	POWER CORD ASSEMBLY	6411JK1006A
418A	HEATER,SHEATH	5300JB1100D
420A	MOTOR(MECH),COOLING	4680JK1001B
501A	PWB(PCB) ASSEMBLY,MAIN	6871JB1215A
501F	COVER,PWB	3550JJ1042B
503C	PWB(PCB) ASSEMBLY,DISPLAY	6871JB2047A
503D	CASE,DISPLAY	3110JJ1005A
503E	COVER,DISPLAY	3550JJ2031A
503G	DECO,CONTROL	3806JL1009A
602A	HOLDER,BRACKET	4930JA3037A
610A	COVER,SENSOR	3550JJ2020A
619B	COVER,VALVE	3550JJ2024A
621A	CONNECTOR (MECH),DOOR	4932JJ2001B
625A	COVER,TUBE	3550JJ2036A
700B	HANDLE ASSEMBLY,F	3651JJ2010G
700C	HANDLE ASSEMBLY,R	3651JJ2017D
903A	COVER,LOWER	3550JJ0005C
903B	HOLDER,COVER LOWER	4930JJ2021A
903D	SENSOR	6500JK1003A
903E	SENSOR	6500JK1004A
B01	SCREW,DRAWING	1STZJA3004F
S01	SCREW,DRAWING	1SZZJJ3010A
S03	SCREW,DRAWING	1SZZJJ3018A
S07	SCREW,DRAWING	4000W4A003A
S22	SCREW,DRAWING	3J05696C
S24	SCREW,DRAWING	1SZZJA3011B
S28	SCREW,DRAWING	3J05696W
S38	SCREW,DRAWING	4J00415D

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LOC	DESCRIPTION	PART NO.
103A	HANDLE,BACK	3650JJ2003H
103B	HANDLE,BACK	3650JJ2003D
103C	COVER ASSEMBLY,LOWER	3551JJ1015G
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
105A	DRAIN ASSEMBLY,PIPE-Z	5251JJ2003A
105F	SKIRT,LOWER	5070JJ3002A
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A
106B	WASHER,DRAWING	4J00382C
120B	DUCT ASSEMBLY,MULTI	5209JJ1002A
125A	TRAY ASSEMBLY,ICE	3391JJ1009B
125D	HOLDER,BRACKET	4930JJ3007A
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A
128B	GUIDE ASSEMBLY,RAIL	4975JJ2002B
131A	BANK ASSEMBLY,ICE	5075JJ1001B
135C	COVER,GRILLE FAN	3550JJ2030A
136A	TRAY ASSEMBLY,DRAWER	3391JJ1011A
136B	TRAY,DRAWER	3390JJ1088A
136F	TRAY ASSEMBLY,DRAWER	3391JJ1033A
140B	SHELF ASSEMBLY,R	5027JJ2007A
140B	SHELF ASSEMBLY,R	5027JJ2007A
140D	SHELF,NET	5026JJ2001G
140E	SHELF,NET	5026JJ2001H
142D	SHELF,NET	5026JJ2001L
142E	SHELF,NET	5026JJ2001M
143E	SHELF ASSEMBLY,R	5027JJ1008A
143F	SHELF ASSEMBLY,R	5027JJ1008C
145A	HOLDER,SHELF	4930JJ2003A
145B	HOLDER,SHELF	4930JJ2004A
145D	GUIDE,RAIL	4974JJ1012A
145G	GUIDE ASSEMBLY,RAIL	4975JJ2005H
146D	CAN,SERVER	5044JJ1002A
147A	BANK,DAIRY	5074JJ1005A
151A	TRAY ASSEMBLY,VEGETABLE	3391JJ1020D
151C	KNOB,SHUTTER	4940JJ2003B
154A	COVER,T/V	3550JL1006D
155B	SUPPORTER ASSEMBLY,COVER-T/V	4981JJ2001B
158A	COVER,LAMP	3550JJ1040A
158E	COVER,LAMP	3550JJ1051A
167B	GLASS,SHELF	4890JL1002G
170A	TRAY ASSEMBLY,MEAT	3391JJ2004G
200A	DOOR ASSEMBLY,F	3581JJ8054C
201A	DOOR FOAM ASSEMBLY,F	5433JJ0059J
203A	GASKET ASSEMBLY,DOOR	4987JJ1004C
205A	BASKET,DOOR	5004JJ1042A
205B	BASKET,TILT	5004JJ2005B
205C	BASKET,TILT	5004JJ2005A
212A	HANDLE,F	3650JJ1035A
212G	MARK	3846JD1007B
230A	DOOR ASSEMBLY,R	3581JJ8027U
231A	DOOR FOAM ASSEMBLY,R	5433JJ0016M
233A	GASKET ASSEMBLY,DOOR	4987JJ1004D
237A	GUIDE,BOTTLE	4974JJ2012A
237C	GUIDE,DRAWER	4974JJ1021A
241A	COVER,TRAY	3550JL2003G
241B	BASKET,DOOR	5004JJ1035A
241C	BASKET ASSEMBLY,DOOR	5005JJ2017B
241D	BASKET ASSEMBLY,DOOR	5005JJ2020B
241E	BASKET ASSEMBLY,DOOR	5005JJ2018B
243A	STOPPER,DOOR	4620JJ3006D
244A	HANDLE,R	3650JJ1034D
244B	HOLDER,HANDLE	4930JJ2023A
244C	HOLDER,HANDLE	4930JJ2022A
244J	STOPPER,HANDLE	4620JJ3007A
245A	HOLDER,HANDLE	4930JJ2019B
245B	HOLDER,HANDLE	4930JJ2020B
248E	DECO,TRAY	3806JJ2036A
248F	SUPPORTER,HOLDER	4980JJ2005B
248N	RAIL ASSEMBLY,SLIDE	5219JJ2002A
248P	RAIL ASSEMBLY,SLIDE	5219JJ2002B
249G	GUIDE,RAIL	4974JJ1011A
281A	COVER,HINGE	3550JJ2013D
281B	HINGE ASSEMBLY,U	4775JJ2003B
281C	HINGE ASSEMBLY,L	4775JJ2008A
282B	HINGE ASSEMBLY,C	4775JJ8002G
282E	CAP,HINGE	5006JJ2001G
282F	DECO,DUCT	3806JL2006E
282H	CAP,HINGE	5006JJ3004F
283B	HINGE,L	4774JJ3001A
284D	SCREW,DRAWING	1STZJA3004K
285A	GUIDE ASSEMBLY,RAIL	4975JJ2007G
286A	BUSH	4984JJ3003A
286A	BUSH	4984JJ3003A
301A	EVAPORATOR ASSEMBLY	5421JJ1001A
304A	COVER ASSEMBLY,BACK-M/C	3551JJ2008A
305B	ROLLER	4580JJ3001A
305B	ROLLER	4580JJ3001A
305C	PIN,DRAWING	4J04238A
305C	PIN,DRAWING	4J04238A
307A	COMPRESSOR,SET ASSEMBLY	2521JJ8004A
308A	P.T.C ASSEMBLY	6748JJ8002A
309A	O.L.P	6750JJ8002A
310A	COVER,P.T.C	3550JJ8003A
312A	RUBBER,SEAT	5040JA3031A
314A	STOPPER,COMP	4620JA3009A
315A	COMP BASE ASSEMBLY,STD	3103JJ1001K
317A	DRIER ASSEMBLY	5851JJ2002B
318A	HOLDER,DRIER	4930JJ3002A
319A	TRAY,DRIP	3390JJ0003A
319C	GUIDE,FAN	4974JJ1009A
323B	CONDENSER ASSEMBLY,WIRE	5403JJ1005A
328A	RUBBER,DAMPING	4J03020A
328B	RUBBER,DAMPING	4J04328A
329A	FAN ASSEMBLY	5901JJ1005A
329C	FAN ASSEMBLY	5901JJ1004B
332A	GRILLE ASSEMBLY,FAN	3531JJ1004B
401A	CONTROLLER ASSEMBLY(CIRC)	6615JB2005C
404A	MOTOR ASSEMBLY,REF FAN	4680JK1002B
405A	BRACKET ASSEMBLY,MOTOR	4811JJ2002B
405B	BRACKET,MOTOR	4810JA3007A
405C	RUBBER,MOTOR-F	J756-00008B
406B	SWITCH,[PUSH]	6600JB1004A
409B	LAMP,[INCANDESCENT]	6912JK2002C
409D	REFLECTOR,LAMP	3034JJ1002B
410A	SOCKET ASSEMBLY,LAMP	6621JK2002D
410G	CAPACITOR,DRAWING	0CZZJB2003H
411A	POWER CORD ASSEMBLY	6411JK1006A
418A	HEATER,SHEATH	5300JB1100D
420A	MOTOR(MECH),COOLING	4680JK1001B
501A	PWB(PCB) ASSEMBLY,MAIN	6871JB1215A
501F	COVER,PWB	3550JJ1042B
503C	PWB(PCB) ASSEMBLY,DISPLAY	6871JB2047A
503D	CASE,DISPLAY	3110JJ1005A
503E	COVER,DISPLAY	3550JJ2031A
503G	DECO,CONTROL	3806JL1009A
602A	HOLDER,BRACKET	4930JA3037A
610A	COVER,SENSOR	3550JJ2020A
619B	COVER,VALVE	3550JJ2024A
621A	CONNECTOR (MECH),DOOR	4932JJ2001B
625A	COVER,TUBE	3550JJ2036A
700B	HANDLE ASSEMBLY,F	3651JJ2010G
700C	HANDLE ASSEMBLY,R	3651JJ2017D
903A	COVER,LOWER	3550JJ0005D
903B	HOLDER,COVER LOWER	4930JJ2021A
903D	SENSOR	6500JK1003A
903E	SENSOR	6500JK1004A
B01	SCREW,DRAWING	1STZJA3004F
S01	SCREW,DRAWING	1SZZJJ3010A
S03	SCREW,DRAWING	1SZZJJ3018A
S07	SCREW,DRAWING	4000W4A003A
S22	SCREW,DRAWING	3J05696C
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S28	SCREW,DRAWING	3J05696W
S38	SCREW,DRAWING	4J00415D

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LOC	DESCRIPTION	PART NO.
103A	HANDLE,BACK	3650JJ2003E
103B	HANDLE,BACK	3650JJ2003A
103C	COVER ASSEMBLY,LOWER	3551JJ1015A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
105A	DRAIN ASSEMBLY,PIPE-Z	5251JJ2003A
105F	SKIRT,LOWER	5070JJ3002A
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A
106B	WASHER,DRAWING	4J00382C
120B	DUCT ASSEMBLY,MULTI	5209JJ1002A
125A	TRAY ASSEMBLY,ICE	3391JJ1009B
125D	HOLDER,BRACKET	4930JJ3007A
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A
128B	GUIDE ASSEMBLY,RAIL	4975JJ2002B
131A	BANK ASSEMBLY,ICE	5075JJ1001B
135C	COVER,GRILLE FAN	3550JJ2030A
136A	TRAY ASSEMBLY,DRAWER	3391JJ1011A
136B	TRAY,DRAWER	3390JJ1088A
136F	TRAY ASSEMBLY,DRAWER	3391JJ1033A
140B	SHELF ASSEMBLY,R	5027JJ2007A
140B	SHELF ASSEMBLY,R	5027JJ2007A
140D	SHELF,NET	5026JJ2001G
140E	SHELF,NET	5026JJ2001H
142D	SHELF,NET	5026JJ2001L
142E	SHELF,NET	5026JJ2001M
143E	SHELF ASSEMBLY,R	5027JJ1008A
143F	SHELF ASSEMBLY,R	5027JJ1008C
145A	HOLDER,SHELF	4930JJ2003A
145B	HOLDER,SHELF	4930JJ2004A
145D	GUIDE,RAIL	4974JJ1012A
145G	GUIDE ASSEMBLY,RAIL	4975JJ2005H
146D	CAN,SERVER	5044JJ1002A
147A	BANK,DAIRY	5074JJ1005A
151A	TRAY ASSEMBLY,VEGETABLE	3391JJ1020D
151C	KNOB,SHUTTER	4940JJ2003B
154A	COVER,T/V	3550JL1006D
155B	SUPPORTER ASSEMBLY,COVER-T/V	4981JJ2001B
158A	COVER,LAMP	3550JJ1040A
158E	COVER,LAMP	3550JJ1051A
167B	GLASS,SHELF	4890JL1002G
170A	TRAY ASSEMBLY,MEAT	3391JJ2004G
200A	DOOR ASSEMBLY,F	3581JJ8049A
201A	DOOR FOAM ASSEMBLY,F	5433JJ0059A
203A	GASKET ASSEMBLY,DOOR	4987JJ1004C
205A	BASKET,DOOR	5004JJ1042A
205B	BASKET,TILT	5004JJ2005B
205C	BASKET,TILT	5004JJ2005A
212B	HANDLE,F	3650JJ0019A
212F	BRACKET,HANDLE	4810JJ3015A
212G	MARK	3846JD1007B
212J	STOPPER,HANDLE	4620JJ3007A
230A	DOOR ASSEMBLY,R	3581JJ8046B
231A	DOOR FOAM ASSEMBLY,R	5433JJ0016N
233A	GASKET ASSEMBLY,DOOR	4987JJ1004D
237A	GUIDE,BOTTLE	4974JJ2012A
237C	GUIDE,DRAWER	4974JJ1021A
241A	COVER,TRAY	3550JL2003G
241B	BASKET,DOOR	5004JJ1035A
241C	BASKET ASSEMBLY,DOOR	5005JJ2017B
241D	BASKET ASSEMBLY,DOOR	5005JJ2020B
241E	BASKET ASSEMBLY,DOOR	5005JJ2018B
243A	STOPPER,DOOR	4620JJ3006A
244E	CAP,HANDLE	5006JJ3016A
244F	BRACKET,HANDLE	4810JJ2011B
244G	BRACKET,HANDLE	4810JJ2011A
244H	HANDLE,R	3650JJ0020A
248E	DECO,TRAY	3806JJ2036A
248F	SUPPORTER,HOLDER	4980JJ2005B
248N	RAIL ASSEMBLY,SLIDE	5219JJ2002A
248P	RAIL ASSEMBLY,SLIDE	5219JJ2002B
249G	GUIDE,RAIL	4974JJ1011A
281A	COVER,HINGE	3550JJ2013A
281B	HINGE ASSEMBLY,U	4775JJ2003B

LOC	DESCRIPTION	PART NO.
281C	HINGE ASSEMBLY,L	4775JJ2008A
282B	HINGE ASSEMBLY,C	4775JJ8002A
282E	CAP,HINGE	5006JJ2001A
282F	DECO,DUCT	3806JL2006E
282H	CAP,HINGE	5006JJ3004A
283B	HINGE,L	4774JJ3001A
284D	SCREW,DRAWING	1STZJA3004K
285A	GUIDE ASSEMBLY,RAIL	4975JJ2007G
286A	BUSH	4984JJ3003A
286A	BUSH	4984JJ3003A
301A	EVAPORATOR ASSEMBLY	5421JJ1001A
304A	COVER ASSEMBLY,BACK-M/C	3551JJ2008A
305B	ROLLER	4580JJ3001A
305B	ROLLER	4580JJ3001A
305C	PIN,DRAWING	4J04238A
305C	PIN,DRAWING	4J04238A
307A	COMPRESSOR,SET ASSEMBLY	2521C-A5725
308A	P.T.C ASSEMBLY	6748C-0004D
309A	O.L.P	6750CR0004S
310A	COVER,P.T.C	3550JA2042A
312A	RUBBER,SEAT	5040JA3031A
314A	STOPPER,COMP	4620JA3009A
315A	COMP BASE ASSEMBLY,STD	3103JJ1001K
317A	DRIER ASSEMBLY	5851JJ2002B
318A	HOLDER,DRIER	4930JJ3002A
319A	TRAY,DRIP	3390JJ0003A
319C	GUIDE,FAN	4974JJ1009A
323B	CONDENSER ASSEMBLY,WIRE	5403JJ1005A
328A	RUBBER,DAMPING	4J03020A
328B	RUBBER,DAMPING	4J04328A
328B	RUBBER,DAMPING	4J04328A
329A	FAN ASSEMBLY	5901JJ1005A
329C	FAN ASSEMBLY	5901JJ1004B
332A	GRILLE ASSEMBLY,FAN	3531JJ1004B
401A	CONTROLLER ASSEMBLY(CIRC)	6615JB2005C
404A	MOTOR ASSEMBLY,REF FAN	4680JK1002B
405A	BRACKET ASSEMBLY,MOTOR	4811JJ2002B
405B	BRACKET,MOTOR	4810JA3007A
405C	RUBBER,MOTOR-F	J756-00008B
406B	SWITCH,[PUSH]	6600JB1004A
409B	LAMP,[INCANDESCENT]	6912JK2002C
409D	REFLECTOR,LAMP	3034JJ1002B
410A	SOCKET ASSEMBLY,LAMP	6621JK2002D
410G	CAPACITOR,DRAWING	0CZZJB2003H
411A	POWER CORD ASSEMBLY	6411JK1006A
418A	HEATER,SHEATH	5300JB1100D
420A	MOTOR(MECH),COOLING	4680JK1001B
501A	PWB(PCB) ASSEMBLY,MAIN	6871JB1215A
501F	COVER,PWB	3550JJ1042B
503C	PWB(PCB) ASSEMBLY,DISPLAY	6871JB2047A
503D	CASE,DISPLAY	3110JJ1005A
503E	COVER,DISPLAY	3550JJ2031A
503G	DECO,CONTROL	3806JL1009A
602A	HOLDER,BRACKET	4930JA3037A
610A	COVER,SENSOR	3550JJ2020A
619B	COVER,VALVE	3550JJ2024A
621A	CONNECTOR (MECH),DOOR	4932JJ2001B
625A	COVER,TUBE	3550JJ2036A
700B	HANDLE ASSEMBLY,F	3651JJ2016D
700C	HANDLE ASSEMBLY,R	3651JJ2015D
903A	COVER,LOWER	3550JJ0005A
903B	HOLDER,COVER LOWER	4930JJ2021A
903D	SENSOR	6500JK1003A
903E	SENSOR	6500JK1004A
B01	SCREW,DRAWING	1STZJA3004F
S01	SCREW,DRAWING	1SZZJJ3010A
S07	SCREW,DRAWING	4000W4A003A
S22	SCREW,DRAWING	3J05696C
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S28	SCREW,DRAWING	3J05696W
S38	SCREW,DRAWING	4J00415D

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LOC	DESCRIPTION	PART NO.
103A	HANDLE,BACK	3650JJ2003M
103B	HANDLE,BACK	3650JJ2003L
103C	COVER ASSEMBLY,LOWER	3551JJ1015E
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A
105A	DRAIN ASSEMBLY,PIPE-Z	5251JJ2003A
105F	SKIRT,LOWER	5070JJ3002A
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A
106B	WASHER,DRAWING	4J00382C
120B	DUCT ASSEMBLY,MULTI	5209JJ1002A
125A	TRAY ASSEMBLY,ICE	3391JJ1009B
125D	HOLDER,BRACKET	4930JJ3007A
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A
128B	GUIDE ASSEMBLY,RAIL	4975JJ2002B
131A	BANK ASSEMBLY,ICE	5075JJ1001B
135C	COVER,GRILLE FAN	3550JJ2030A
136A	TRAY ASSEMBLY,DRAWER	3391JJ1011A
136B	TRAY,DRAWER	3390JJ1088A
136F	TRAY ASSEMBLY,DRAWER	3391JJ1033A
140B	SHELF ASSEMBLY,R	5027JJ2007A
140B	SHELF ASSEMBLY,R	5027JJ2007A
140D	SHELF,NET	5026JJ2001G
140E	SHELF,NET	5026JJ2001H
142D	SHELF,NET	5026JJ2001L
142E	SHELF,NET	5026JJ2001M
143E	SHELF ASSEMBLY,R	5027JJ1008A
143F	SHELF ASSEMBLY,R	5027JJ1008C
145A	HOLDER,SHELF	4930JJ2003A
145B	HOLDER,SHELF	4930JJ2004A
145D	GUIDE,RAIL	4974JJ1012A
145G	GUIDE ASSEMBLY,RAIL	4975JJ2005H
146D	CAN,SERVER	5044JJ1002A
147A	BANK,DAIRY	5074JJ1005A
151A	TRAY ASSEMBLY,VEGETABLE	3391JJ1020D
151C	KNOB,SHUTTER	4940JJ2003B
154A	COVER,T/V	3550JL1006D
155B	SUPPORTER ASSEMBLY,COVER-T/V	4981JJ2001B
158A	COVER,LAMP	3550JJ1040A
158E	COVER,LAMP	3550JJ1051A
167B	GLASS,SHELF	4890JL1002G
170A	TRAY ASSEMBLY,MEAT	3391JJ2004G
200A	DOOR ASSEMBLY,F	3581JJ8054B
201A	DOOR FOAM ASSEMBLY,F	5433JJ0059H
203A	GASKET ASSEMBLY,DOOR	4987JJ1004G
205A	BASKET,DOOR	5004JJ1042A
205B	BASKET,TILT	5004JJ2005B
205C	BASKET,TILT	5004JJ2005A
212A	HANDLE,F	3650JJ1035C
212G	MARK	3846JD1007D
230A	DOOR ASSEMBLY,R	3581JJ8027V
231A	DOOR FOAM ASSEMBLY,R	5433JJ0016T
233A	GASKET ASSEMBLY,DOOR	4987JJ1004H
237A	GUIDE,BOTTLE	4974JJ2012A
237C	GUIDE,DRAWER	4974JJ1021A
241A	COVER,TRAY	3550JL2003G
241B	BASKET,DOOR	5004JJ1035A
241C	BASKET ASSEMBLY,DOOR	5005JJ2017B
241D	BASKET ASSEMBLY,DOOR	5005JJ2020B
241E	BASKET ASSEMBLY,DOOR	5005JJ2018B
243A	STOPPER,DOOR	4620JJ3006C
244A	HANDLE,R	3650JJ1034P
244B	HOLDER,HANDLE	4930JJ2023C
244C	HOLDER,HANDLE	4930JJ2022C
244J	STOPPER,HANDLE	4620JJ3007A
245A	HOLDER,HANDLE	4930JJ2019C
245B	HOLDER,HANDLE	4930JJ2020C
248E	DECO,TRAY	3806JJ2036A
248F	SUPPORTER,HOLDER	4980JJ2005B
248N	RAIL ASSEMBLY,SLIDE	5219JJ2002A
248P	RAIL ASSEMBLY,SLIDE	5219JJ2002B
249G	GUIDE,RAIL	4974JJ1011A
281A	COVER,HINGE	3550JJ2013C

LOC	DESCRIPTION	PART NO.
281B	HINGE ASSEMBLY,U	4775JJ2003B
281C	HINGE ASSEMBLY,L	4775JJ2008A
282B	HINGE ASSEMBLY,C	4775JJ8002C
282E	CAP,HINGE	5006JJ2001F
282F	DECO,DUCT	3806JL2006E
282H	CAP,HINGE	5006JJ3004E
283B	HINGE,L	4774JJ3001A
284D	SCREW,DRAWING	1STZJA3004K
285A	GUIDE ASSEMBLY,RAIL	4975JJ2007G
286A	BUSH	4984JJ3003A
301A	EVAPORATOR ASSEMBLY	5421JJ1001A
304A	COVER ASSEMBLY,BACK-M/C	3551JJ2008A
305B	ROLLER	4580JJ3001A
305B	ROLLER	4580JJ3001A
305C	PIN,DRAWING	4J04238A
305C	PIN,DRAWING	4J04238A
307A	COMPRESSOR,SET ASSEMBLY	2521C-A5725
308A	P.T.C ASSEMBLY	6748C-0004D
309A	O.L.P	6750CR0004S
310A	COVER,P.T.C	3550JA2042A
312A	RUBBER,SEAT	5040JA3031A
314A	STOPPER,COMP	4620JA3009A
315A	COMP BASE ASSEMBLY,STD	3103JJ1001K
317A	DRIER ASSEMBLY	5851JJ2002B
318A	HOLDER,DRIER	4930JJ3002A
319A	TRAY,DRIP	3390JJ0003A
319C	GUIDE,FAN	4974JJ1009A
323B	CONDENSER ASSEMBLY,WIRE	5403JJ1005A
328A	RUBBER,DAMPING	4J03020A
328B	RUBBER,DAMPING	4J04328A
329A	FAN ASSEMBLY	5901JJ1005A
329C	FAN ASSEMBLY	5901JJ1004B
332A	GRILLE ASSEMBLY,FAN	3531JJ1004B
401A	CONTROLLER ASSEMBLY(CIRC)	6615JB2005C
404A	MOTOR ASSEMBLY,REF FAN	4680JK1002B
405A	BRACKET ASSEMBLY,MOTOR	4811JJ2002B
405B	BRACKET,MOTOR	4810JA3007A
405C	RUBBER,MOTOR-F	J756-00008B
406B	SWITCH,[PUSH]	6600JB1004A
409B	LAMP,[INCANDESCENT]	6912JK2002C
409D	REFLECTOR,LAMP	3034JJ1002B
410A	SOCKET ASSEMBLY,LAMP	6621JK2002D
410G	CAPACITOR,DRAWING	0CZZJB2003H
411A	POWER CORD ASSEMBLY	6411JK1006A
418A	HEATER,SHEATH	5300JB1100D
420A	MOTOR(MECH),COOLING	4680JK1001B
501A	PWB(PCB) ASSEMBLY,MAIN	6871JB1215A
501F	COVER,PWB	3550JJ1042B
503C	PWB(PCB) ASSEMBLY,DISPLAY	6871JB2047A
503D	CASE,DISPLAY	3110JJ1005A
503E	COVER,DISPLAY	3550JJ2031A
503G	DECO,CONTROL	3806JL1009A
602A	HOLDER,BRACKET	4930JA3037A
610A	COVER,SENSOR	3550JJ2020A
619B	COVER,VALVE	3550JJ2024A
621A	CONNECTOR (MECH),DOOR	4932JJ2001B
625A	COVER,TUBE	3550JJ2036A
700B	HANDLE ASSEMBLY,F	3651JJ2010J
700C	HANDLE ASSEMBLY,R	3651JJ2017F
903A	COVER,LOWER	3550JJ0005C
903B	HOLDER,COVER LOWER	4930JJ2021A
903D	SENSOR	6500JK1003A
903E	SENSOR	6500JK1004A
B01	SCREW,DRAWING	1STZJA3004F
S01	SCREW,DRAWING	1SZZJJ3010A
S03	SCREW,DRAWING	1SZZJJ3018A
S07	SCREW,DRAWING	4000W4A003A
S22	SCREW,DRAWING	3J05696C
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S24	SCREW,DRAWING	1SZZJA3011B
S28	SCREW,DRAWING	3J05696W
S38	SCREW,DRAWING	4J00415D

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